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1879

Feb. 15 Mr. Sherman was appointed by Gen. John B. Francis Superintendent of Public Instruction. His appointment was confirmed in the Legislative Council.

Feb. 20 The books and all papers belonging to the Office were turned over to the new Superintendent.

Feb. 20. Official letters received and answered from Supt. W. M. Hancock of Mariposa Co.

" " Sent Blanks as follows to the school Supt. of Mariposa Co.

Teachers Quarterlies — — —	35
Blank Vouchers	22

" " Official letter rec'd from Wm. A. P. Gillespie, of Atlantic, Iowa. He wishes a position as teacher. Letter answered and placed on file.

1879

Feby 22 Official letters sent to each of the County Superintendents as follows

Hon. J. P. Hargrave	Yuba Co	
Hon. Chas Dennison	Mojave	"
Hon. W. A. Hancock	Maricopa	"
Hon. Saml Purdy	Yuma	"
Hon. James Stinson	Syracuse	"
Hon. J. S. Wood	Pima	"
Hon. Walker	Pinal	"

Copy of Letter sent

Official Superintendent
of Public Instruction
Arizona

Hon. Superintendent Schools
County of ------
Dear Sir,

Having just been appointed Superintendent of Education for Arizona, I have concluded to write each of the County Superintendents in regard to the condition of the schools under his charge.

Please fill out the enclosed blank, giving me the information asked for, at your earliest convenience

You will be did me a kindness to

cooperate with you in every thing that will promote the best interests of the schools.

We wish that in every respect the requirements of the law should be carried out; to do this you must have blanks. Please look over your files and see what blanks you stand in need.

See that the teachers in all respects carry out the requirements, and fill out the required blanks.

Are there any school districts needing teachers? If so, please write me, and I will endeavor to put you in communication with such, as far as lies in my power.

Your Obt Servt,
W. A. Sherman.

Prescott O.S.
Feby. 22, 1879.

Copy of Blank

1 How much school money has the County on hand?

2. Give name and address of each of the high examiners, who acted with yourself in examining teachers.

3. How many school buildings in the County, and where situated?

4 How many school districts in the County?

5 Give name and address of each of the three Trustees on each School district. Write "Pres" before the name of Chairman of each Board. Also give name and address of each teacher in the County.

1879

Feby 4 Recd. Official letter from Supt. Dunyway in regard to printing school law.

" " Above letter answered and Blanks sent as follows

24 Teachers monthly Summaries
15 Blank Vouchers
3 copies of school law

Feby 26 Wrote official letter (1) to Editor "Pacific School and Home Journal" (2) Mr. Merritt Sherman "Daily News", Chicago, Ill.

" 27 Official letter recd from Miss Celena Arendt, 729 Columbia St., San Francisco, Cal.

" " Answered the above

" " Sent order to T. J. Walker & Co. Salem Ohio for Blanks, Teachers Reports &c

" 28 Recd two official letters from Geo Safford telling me that Supt of Schs for Placer was out of Blanks

" " Answered the above letters on

Blanks to Superintendent J. Wood, as follows

30	Monthly	Summary
35	Blank	Vouchers
15	Invitations	Quarterlies
10	"	Semiannuals

March 1 Wrote Supt. Wood in regard to this "Report"

" 2 Wrote Supt. J. Stinson in regard to this "Report"

" 4 Recd. official letter from Supt Hancock, enclosing his Report, and asking for Blanks

" " Blanks sent - as follows

95	Quarterlies
40	Summaries

" " Letter from Supt. Hampton asking for a recommendation of teacher for Walnut Creek.

" " Above letter answered and Miss Ella Burnett recommended.

" 6 Appointed A. J. Thilado M.D. member of Examining Board for Gov. County, in

March 6 Appointed Geo. F. Wharf Examiner Maricopa Co. in place of Mr. Lanier resigned.

" 7 Recd. official letter from Mrs. R. Dunning of San Buenaventura Cal.

" " Answered the above

" 8 Recd Report from Supt. Atkinson, of Mojave Co.

" 12 Recd. official letter from Henry C. Parker. Letter placed on file.

" " Sent copy Sch. Law to W. Jackson

" " Wrote T. J. Wallace for a "bid" for printing three hundred copies of School law, also sent other bids for same

" 15 Recd. "Report" from Supt. Wood, Pima Co.

" 16 Recd "Report" from Supt. Walker, Pinal Co.

March 15 Wrote official letters as follows.
Superintendent Pub. Inst. Cal.
" " " Nevada
" " " Colorado
" " " Idaho

" " Recd. full copy of Blanks used by State Supt. of Ill.

" " Recd from Maj. Turrill ans to official letter; & copies of examination Questions.

" " Recd letter from L. S. Holden in regard to School Books.

" 16 Letter recd from Hon. J. P. Slade in answer to one of enquiry in regard to Sch Reports.

May 23 Sent Blanks to all County Supts. Schools.

June 1 Sent Circular letters all Co Supts to gain information regarding census.

Office Supt Pub. Instr.
Prescott, A.T.
June 15 1879

Meeting of Territorial Board of Education.
Present Hons. Butler & W. H. Sherman
Minutes of former meeting read & approved.

Hon. J. J. Butler reported $819.25 on hand in the Territorial School fund subject to apportionment. The money was apportioned as per sec of School Law – as follows.

Yuma	County	301	children	$ 75.25
Pima	"	1078	"	269.50
Yavapai	"	625	"	156.25
Mojave	"	72	"	18.00
Maricopa	"	442	"	110.50
Apache	"	228	"	57.00
Pinal	"	531	"	132.75
		3277	"	819.25

Upon motion of Mr. Butler a Territorial School Diploma was joined to Miss Louisa Upson her furnishing satisfactory evidence of being a graduate of the California Normal School.

Adjourned.

W. H. Sherman
Supt Pub Educat

Office Supt. Pub. Inst.
Prescott A.T.
Jany 24 1880

Meeting called to order by President. Present Gov. J.C. Fremont, Supt Pub Inst. J. F. Meader & W. H. Sherman

On motion of Gen'l Fremont Territorial Diplomas were issued to the following upon their showing evidence of their holding State diplomas

Miss Kate A. Dunning
" Annie Kethroe
" Lucy H. Sherman
Prof. W. F. Fisher

A report from Supt Pub Inst. Meader showing $2972.08 in the Territorial Treasury was read.

The following apportionment was made as per Chap. 61, Sec. 10 Laws 1879

Yavapai County	911	Children	$606.83
Yuma	" 669	"	445.35
Maricopa	" 763	"	507.92
Pima	" 1337	"	890.04
Pinal	" 464	"	308.88
Apache	" 228	"	151.77
Mohave	" 92	"	61.24
	4464		2972.03

Each child being allowed $0.6657

Adjourned

W. H. Sherman
Secy. Bd. of Education

Yavapai County

Receipts: Cash on hand December 31. 1878 $4773.23. Cash received from various sources during the year ending December 31. 1879 Viz: From the Territory $2893.52 from the County $7979.69 Total Receipts $15646.44

Disbursements – Cash paid on various accounts during the year ending December 31. 1879. Viz: To Teachers $6920.85: For Salaries of Officers $250.: For Contingent Expenses $683.22. Total Disbursements $7854.07

Balance on hand $7792.37

(The above balance appears large owing to the Treasurer's report being made up to January 20 1880 after the taxes were paid in, the School Year ending December 15. 1879. The larger portion properly belongs to the School year 1880)

Number of Public Schools in the County 13: Number of Children attending public Schools (Enrolled) 406: average daily attendance 278. School has been taught ten months during the year in district No 1. Six months in district No 2: Three months in district No 3: Six months in district No 4: Three months in district No 5: Three months in district No 6. Six months in district No 7: Six months in district No 8: four months in district No 9: Three months in district No 10: months in district No 11: Three months in district No 12: Eight months No 13: – Eight months and teachers

year (School district No. 1. had 3. teachers) Average Salary of Male teachers $100.— per Month, and female teachers $75.— per Month.

Total number of Children in the County between the ages of Six and twenty one years. 911. of whom 534. are boys and 377 are girls. Total number of Children between the ages of Eight and fourteen years 544. of whom 282 are boys, and 262 are girls. Of those between the ages of Six and twenty one years 588. can read and write, of those between the ages of Eight and fourteen 396. can read and write, leaving 323 between the former ages and 148. between the latter, who cannot read and write.

The County Superintendent of public Schools reports Educational Matters in a very healthy condition, the number of organized districts has doubled during the year.

Pima County

Receipts: Cash in hand December 31. 1878. $2319.96: Cash received from various sources during the year ending December 31. 1879. Viz: From the Territory $2176.26: from the County $1822.69 Total Receipts $6315.91

Disbursements: — Cash paid on various accounts during the year ending December 31 1879. Viz: To Teachers $4022.— for Salary to Superintendent $212.50: do Contingent Expenses $711.40: Total

disbursements $4945.90

Balance on hand December 31. 1879 $ 1370.01

Number of Public Schools in the County 7. Number of children enrolled in Public Schools 512.: Average daily attendance 320.: School has been taught Nine months during the year in district No 1. (Tucson): Six months in district No 2.: (Tres Alamos) Six months in district No 3.: (Saffird) four months in district No 6.: (Los Cabasas). three months in district No 7. (Camp Thomas): in districts four (Tubac) and five (Arivaca) no School

Ten Male and five female teachers have been employed during the year (School district No 1. had three teachers) Average Salary of Male teachers $100. and female teachers. $82. per month.

Total number of children in the County between the ages Six and twenty one years. 1337. of whom 650. are boys and 687. are girls.

Maricopa County

Receipts:—Cash on hand December 31. 1878. $398.55.: Cash received from various sources during the year Ending December 31. 1879. Viz: From the Territory $1241.55. from the County $1456.57; from the sale of bonds for Phoenix School house $12000.-

Total Receipts $15.096.6

Disbursements:—Cash paid on accounts due

31. 1879. Viz: To Teachers $2230.50: for buildings, repairs etc $10.046.40: for Salary of Superintendent $250: Contingent Expenses $387.63: Total disbursements $12914.53
Balance on hand December 31. 1879. $2182.14

Number of Public Schools in the County 10. Number of children Enrolled in Public Schools 336. Average attendance 210. School has been taught Eight Months in district No 1. four Months in district No 2.: Six months in district No 3. three Months in district No 4. One Month in district No 5.: fourteen days in district No 6: Six Months in district No 7.: three Months in district No 8.: ten days in district No 9.: and three Months in district No. 10.: Five Male and Seven female teachers have been employed during the year (School district No 1. had three teachers) Average Salary of teachers, $30. per Month. Total number of children in the County, between the ages of Six and twenty one years. 763. of whom 396. are boys, and 367. are girls. Number of children from the age of Eight to to fourteen years 382, of whom 191. are boys and 186 are girls Number of children Enrolled in Public Schools 336. of whom 167. are boys and 169. are girls. (Number of boys between the age of Eight and fourteen years 108. of girls 114.)

Apache County

Receipts:— Cash on hand December 31. 1878: Cash received from various

Sources during the year ending December 31. 1879. Viz: From the Territory $57.68
Total Receipts $57.68

Disbursements – Cash paid on accounts during the year ending December 31 1879 Viz: To Teacher $57.68. Total disbursements $57.68.

Number of Public Schools in the County 4. Number of Children enrolled in the Public Schools 167. Average daily attendance 143. Total Number of Children in the County, between the ages of six and twenty one years 252. of whom 136 are boys and 116 are girls. Total Number of Children between the ages of Eight and fourteen years 188. of whom 105 are boys and 83 are girls: there were no taxes collected in this County, owing to the illegality of the assessment.

Mohave County

Receipts:– Cash on hand December 31. 1878. $340.67: Cash received from various Sources during the year ending December 31 1879 Viz: From the Territory $149.74: from the County $1.838.79 Total Receipts $2329.20

Disbursements:– Cash paid on various accounts during the year ending December 31. 1879: Viz: To Teachers $692.50: for salary of Superintendent $250: for contingent Expenses $178.– Total disbursements
Balance on hand December 31
$1208.70:

Number of Public Schools in the County 2.; Number of Children Enrolled in public Schools 40. Average daily attendance 23.; Two female teachers have been Employed during the year.
Average Salary $ 80. per month, School has been taught four Months during the year in district No 1. and three and a half months in district No 2.
Total Number of Children in the County 72 of whom 38 are boys and 34 are girls; total Number of Children between the ages of Eight and Fourteen Years 56.

Pinal County

Receipts:— Cash on hand December 31. 1878.: $ 2048.57: Cash received from various sources during the year Ending December 31. 1879. Viz: From the Territory $ 676.89: from the County $ 3177.76 Total Receipts: $ 5.903.22

Disbursements:— Cash paid on various accounts during the year Ending December 31. 1879. Viz: To teachers $ 2624 for Salary of Superintendent $ 250.: for Contingent Expenses $ 480.22: Total disbursements $ 3354.22
Balance on hand December 31. 1879: $ 2549.
Number of Public Schools in the County 4. Number of Children Enrolled in public Schools 176.: Average daily attendance 115.: School has been taught Eight Months during the year in District No 1. (Florence) Six Months in district No 2.; three

Months in district No. 3.; and five Months in district No 4. Two Male and two Female teachers have been employed during the Year. Average Salary of teachers $100. and $60. per Month.

Total number of children in the County between the ages of Six and twenty one years, 464. of whom 246 are boys and 218 are girls. Total number of children between the ages of Eighteen and fourteen years, 296.

Yuma County

Receipts:—Cash on hand December 31. 1878. None. Cash received from various sources, during the year ending December 31. 1879. Viz: From the Territory $657.72: from the County $666.23: Total Receipts. $1.325.95

Disbursements:—Cash paid on various accounts during the year ending December 31. 1879. Viz: To teachers $890. for Salary of Superintending $250.: for Contingent Expenses $185.95 Total disbursements $1.325.95

Number of public Schools in the County 2. Number of children enrolled in public Schools 32. Average daily attendance 23. School has been taught 8 months during the year. Two female teachers have been employed during year; Average of same $100 per Month.

Total number of children in the between the ages of Six and twe

are girls. Total number of children between the ages of eight and fourteen years 477. of whom 208 are boys, and 269 are girls

Recapitulation

Total Receipts from all Sources by Counties during the Year Ending December 31. 1879 are as follows.

Yavapai County	$ 15.646. 44
Pima County	6315. 91
Maricopa County	15.096. 67
Apache County	57. 68
Mohave County	2329. 20
Pinal County	5.903. 22
Yuma County	1.325. 95
Total Receipts	$ 46.675. 07

The total disbursements by Counties for the Year Ending December 31. 1879. were as follows

Yavapai County	$ 7.854. 07
Pima County	4945. 90
Maricopa County	12.914. 53
Apache County	57. 68
Mohave County	1.120. 50
Pinal County	3.354. 22
Yuma County	1.325. 95
	$ 31.572. 85

Exceeding the expenditures for public School purposes during the year 1879 $15.102. 22 (the reason of this balance being so large, is, that the receipts include the November taxes of Yavapai County, which go to support the Sch[illegible] 1880)

Report for 1880.

Pima County.

Receipts:—Cash on hand December 31. 1879. $1370.01: Cash received from various sources during the year ending December 31. 1880. Viz: From the Territory $1773.50: from the County, $20.616.77: Total Receipts $23.780.26

Disbursements:—Cash paid on various accounts during the year ending December 31. 1880. Viz: Teachers $7.841: for Salary of Superintendent $250: for Buildings and repairs $2.659.13: for Contingent Expenses $191.76 Total disbursements $10.941.89.
Balance on hand December 31. 1880 $12.838.37

Number of Public Schools in the County 13. Number of School Houses 6. Number of Children Enrolled in Public Schools 487. Average daily attendance 395. School has been taught Nine Months during the year in districts No. 1. 2. 3. 6 7. 8. 9 and 10.: Seven Male and Nine female teachers, have been employed during the year, Average rate of Salary $90. per Month. There are 587. children attending Public Schools. Average attendance 396. Total number of Children in the County between the ages of Six and twenty one Years 1790. of which 901. are boys and 889. are girls. Total of Children between the ages of 8 & 14 years 8 34 [illegible] and 501.

Muscoda County:

Receipts:—Cash on hand December 31. 1879 $2182.14: Cash received from various sources during the year ending December 31 1880 Viz: From the Territory $1066.11: from the County $4916.16: from other sources $541. Total Receipts $8705.41

Disbursements:—Cash paid on various accounts during the year ending December 31. 1880. Viz: Total claims $2869.98 for Buildings and repairing $423.87: Total disbursements $8628.63 Balance on hand December 31. 1880. $76.78

Number public Schools in the County 10. Number of children Enrolled in public Schools 496.: Average daily attendance 316.: School has been taught, Nine Months during the year in district No 1. Six Months in district No 2. Three Months in district No 3. Nine Months in district No 4. Six Months in district No 5. Two Months in district No 6. Four Months in district No 7. Three Months in district No 8. Nine Months in district No 9. and Eleven and a half Months in district No 10. in Six Male and Eleven female teachers have been employed during the year. Average Salary of teachers $20. per Month. Total number of children in this County, between the ages of Six and twenty one years 534. of whom 110 males and [illegible] females

Total number of children between the ages of eight and fourteen years 397 of whom 205 are boys and 192 are girls

Mohave County

Receipts:— Cash on hand December 31. 1879. $1.208.70.— Cash received from various sources during the year ending December 31. 1880 Viz: From the Territory, $127.55: from the County $1.982.48:. Total receipts $3.318.73

Disbursements:— Cash paid on various accounts during the year ending December 31. 1880. Viz: To teachers $1.690.73: for Salary of Superintendent $226.91: for contingent expenses $399.29: Total Disbursements $2.316.93

Balance on hand December 31. 1880 $1.001.80

Number of Public Schools in the County 2. Number of Children enrolled in public Schools 48. Average daily attendance 36.

Four female and one Male teacher have been employed during the year Average Salary $85. per Month, Number of Children in the County between the ages of six and twenty one years. 74

Emmet County

Receipts:— Cash on hand December 31. 1879: None: Cash received from various sources during the year ending December 31. 1880. Viz: From the Territory. $881.36: from the County $999.92
Total Receipts $1881.28

Disbursements:— Cash paid on various accounts, during the year ending December 31. 1880. To teachers. $1200.: for Salary of Superintendent $229.17: for contingent Expenses $101.65
Total Disbursements $1.530.82

Balance on hand December 31 1880 $350.46

Number of public Schools in the County 21. Number children enrolled in public Schools 46. Average Daily attendance 29.: Three female teachers were employed during the year. Average Salary $100. per month.
School has been taught ten months during the year. Total number of children in the County, between the ages of Six and twenty one years 712. of whom 340. are boys and 372 are girls. Number of children between the ages of Eight and fourteen years 508. of whom 247. are boys, and 261. are girls

Yavapai County

Receipts:— Cash on hand December 31. 1879. $303.14: Cash received from various sources during the year ending December 31 1880 Viz: From the Territory and County $8365.92: from rents of school building $780.:
Total receipts $9449.06

Disbursements:— Cash paid on various accounts during the year ending December 31 1880. Viz: Teachers $7277.69: for buildings and repairs $664.53: for Salary of Superintendent $250.: for Contingent Expenses $1044.76:
Total disbursements $9236.98

Balance on hand December 31 1880 $212.08.

Number of Public Schools in the County 18. Number of Children enrolled 336. Average daily attendance 261. Total number of children in the County between the ages of Six and twenty one years, 911. of whom 534 are boys and 377 are girls.
Total number of children between the ages of Eight and fourteen years 565. of whom 362 are boys, and 203. are girls. School has been taught ten months during the year in district No 1. Seven months in district No 2. four in

No 5. Six Months in district No 6. three Months in district No 7.; three Months in district No 8.; five Months in district No 9. three and a half Months in district No 10. Nine Months in district No 11.; five Months in district No 13.; three Months in district No 15.; and two Months in district No 16.; Nine Male and fourteen female teachers have been employed during the year, Average Salary $85.- per Month

Pima County.

Receipts:—Cash on hand December 31. 1879. $2549.4; Cash received from various sources during the year ending December 31. 1880. Viz: From the Territory $648.36; from the County $5777.48
Total Receipts $8374.84

Disbursements:—Cash paid on various accounts during the year ending December 31. 1880. Viz: To Teachers $3957.; for Salary of Superintendent $250.- for Contingent Expenses $554.80.
Total disbursements $4762.30

Balance on hand December 31. 1880. — — — $3612.54

Number of public schools in the County [illegible] Tucson [illegible] called

in Public Schools 312. Average daily attendance 207.: School has been taught from three to eight Months during the year in the different districts. Two Male and Six female teachers have been employed during the year. Salary paid teachers from $ 60. to $ 100. per Month.
Total number of children in the County from Six to twenty one Years 621. of Whom 323. are boys and 298 are girls.
Total Number of children between the ages of Eight and fourteen years 316.

Apache County

Receipts: Cash on hand December 31. 1879. None: Cash received from Various Sources during the year ending December 31. 1880. Viz: From the Territory $ 268.29: from the County $ 1497.82
Total receipts $ 1.768.41

Disbursements: — Cash paid on Various accounts during the year ending December 31. 1880. Viz: To teachers salaries and Contingent Expenses $ 1.768.41

~~Disbursements: — Cash Various accounts during~~

~~Teachers~~

(No report of items received from this County)

Number of public Schools in the County 16. Number of teachers employed 21. Salaries paid, vary from $25. to $60. per month.

Total number of children in the County between the ages of six and twenty one years 621. Most of the Schools are Scattered and are generally supported by private Subscription, what these Subscriptions amount to, reports do not show.

Recapitulation

Total receipts from all sources by Counties during the year ending December 31. 1880: as follows:

Pima County,	$23.780.26
Maricopa County,	8.705.41
Mohave County,	3.318.73
Yuma County,	1881.28
Yavapai County,	9.449.06
Pinal County,	8374.84
Apache County,	1.768.41
Total Receipts	$57.277.99

The total disbursements by Counties for the year ending December 31. 1880. were as follows:

Pima County,	$12.838.37
Maricopa County,	8.628.63
Mohave County,	2.316.93
Yuma County,	1.530.82
Yavapai County,	9.236.98
Pinal County	4.762.30
Apache County	1.768.41
Total Disbursements:	$41.082.44

Total Number of children in the Counties, between the ages of Six and twenty one Years 5.593.

The above shows that in 1880. the Amount of Money in the School fund for each person of School was $10.$\frac{24}{100}$.

Office Supt Pub Inst
Prescott Feby 5th 1881

A Meeting of the Territorial Board of Education held this day. present T. J. Butler Treas. and M. H. Sherman absent. Gen J. C. Fremont
on Motion of

the following apportionment of Territorial School Funds to the different Counties was made as per Chapt 61. Sec 10. of School Laws of 1879.

Yavapai	County	911	children	$771.61 . 7
Yuma	"	669		566.64 . 3
Maricopa	"	763	"	646.26 . 1
Pima	"	1337.	"	1132.43 . 9
Pinal	"	464	"	393.00 . 8
Apache	"	508	"	430.27 . 6
Mohave	"	102	"	86.39 . 4
		4754.	"	$4.026 63 - 8
Each child being allowed				$0.84 & 7 mills

Adjourned

M. H. Sherman
Supt of Pub Inst

OFFICE OF

THE TERRITORIAL BOARD OF EDUCATION,

OF ARIZONA.

Prescott, August 3, 1881.

To School Officers:

In accordance with Sections 5 and 35 of the new school law, which make it the duty of the new Board of Education to devise plans for the better organization of the Public Schools, and to prescribe and cause to be adopted a uniform series of Text-books, the Board of Education has prescribed the Appleton series, as per accompanying list, for uniform use in the Public Schools throughout the Territory, to take effect Sept. 1, 1881.

At present there is such a medley of books, frequently as many different series in use as there are families represented, that a perfect organization of classes is impossible, and in many instances the time of the teachers is absolutely thrown away.

The Board has entered into a five years contract with the publishers of these new books, under which they will be delivered *freight free*, for first introduction for a period of ninety days at greatly reduced prices. And in order that these books may be thoroughly adopted by all Schools at this time, and advantage be taken of the extraordinary terms of exchange offered, the Territorial Board of Education, advises, and requests that County Superintendents, and Trustees in all Districts throughout the Territory, do pay out of the *School Fund* the small amount required to make the exchange to the prescribed series.

This will prevent all complaint from those who do not understand the advantage of this change, which will not only give uniformity, but also will give the latest and most approved books.

JOHN C. FREMONT,
T. J. BUTLER,
M. H. SHERMAN,
Territorial Board of Education.

To School Officers, Teachers and Parents.

The Territorial Board of Education of Arizona has become convinced that the Educational interests of the Territory demand a better system of instruction in the Public Schools than that now existing. It has long recognized the advantage of a graded system for the entire Territory, and believes that such a system should be inaugurated.

The Board therefore has determined to reorganize the present Public School system, and, by the authority conferred upon it by law, has adopted a uniform system of Text Books, which it is believed are the best suited to the schools of the Territory, and which are to be supplied at a great reduction from existing prices

It has also adopted a uniform course of study for these text books, which has been prepared with great care, and which will great mote the interest and welfare of the Public Schools.

The Board has made arrangements to have these new books Schools in the Territory for the commencement of the next t prices given below.

Orders for first supplies, to take advantage of the Introduc given above, must be sent to MESSRS. JAMES T. WHITE & CO., N Street, San Francisco.

e supplie
ont Street,
on receipt

LIST OF TEXT BOOKS.

Adopted by the Territorial Board of Education of Arizona, March 12th, 1881, to secure uniformity of text books throughout the Territory in accordance with section 35, Arizona School Law

	Introductory Price
Appleton's First Reader	.12
" Second Reader	.20
" Third Reader	.30
" Fourth Reader	.35
" Fifth Reader	60
Webster's Speller	.10
Appleton's Elementary Geography	45
" Higher "	.90
Model Copy Books, 1, 2, 3, 4, 5, 5½ and 6. per doz.	1 20
Primary, Model Copy Books, 1, 2, 3, 4, 5, and 6. per doz	90
Appleton's Primary Arithmetic	.15
" Elementary Arithmetic	.25
" Practical, with Bookkeeping	.50
Quackenbos' Illustrated Lessons in Language	.35
" Grammar	.50
" Elementery History of the United States	52
" American History	.85
" Natural Philosophy	1 22
" Compositions and Rhetoric	1 05
Krusi's Drawing Series Cards for Kindergarten Schools, 1, 2, 3, each	12
" Synthetic Drawing Books	.12
" Analytic Drawing Books	.16
" Perspective Drawing Books	.21
Science Primers · Introductory–Chemistry—Physics—Physical Geography Geology—Physiology—Astronomy—Botany—Logic—Inventional Geometry—Pianoforte Playing—Political Economy	.35

Orders for first supplies, to take advantage of the Introductory Prices given above, must be sent to MESSRS JAMES T. WHITE & CO, No 23 Dupont Street, San Francisco.

J. C. FREMONT,
T. J BUTLER,
M N. SHERMAN,
Territorial Board of Education of Arizona.

In pursuance to call of Genl Fremont a meeting of the Territorial Board of Education was held at the residence of the Governor. Present Genl Fremont, T. J. Butler and M. H. Sherman.
Meeting called to order by the President M. H. Sherman. Minute of previous meeting were upon motion of the Governor considered read, and approved.
Genl Fremont stated that the object of the meeting was to consider a proposition from D. Appleton & Co in regard to the introduction of certain School text books, thereupon T. J. Butler made some remarks as to terms offered by the previously mentioned House. He was followed by M. H. Sherman who stated that he was in favor of D. Appleton's Readers, that he had a personal acquaintance with the authors of the books, but opposed to the adoption of any books, unless the terms were even exchanged; also stating that he had written to other Publishing Houses for Copies of Readers &c and terms, "and that he thought the Public would not justify the action of the Board unless more than one book and the terms of more than one House were considered. He was followed in remarks by Mr. Cavanagh (Agent for D. Appleton & Co who was invited to be present) who stated his terms were as good as those of any Publishing House would give, and that he was sure "even exchanged" he had. Whereupon Mr.

Butler asked the following question "Will you House give as good terms as any other House, provided the Board receives offers of School books on more advantageous terms", To this Mr Cavanaugh replied in the affirmative. Thereupon Mr Butler moved that Appletons Readers, Geographies and Copy books be adopted, the motion was seconded by Genl Fremont.

The President put the motion which resulted as follows. Affirmative T. J. Butler Genl Fremont Negative, M. W. Thorman.

Meeting adjourned pursuant to call of the President

M. W. Thorman,
President and
Secretary.

Present A.G.
March 19th 1881

Office of Pub Inst
Prescott March 31st 1881.

The Territorial Board of Education met this day at the Office of the Territorial Treasurer, Present —
T. J. Butler, & M K Sherman,

A Resolution was introduced that contracts be signed by the members of the Board of Education with Jas. J. White & Co. No 73 Dupont St San Francisco. Adopting for exclusive use in Arizona as far as authority given in school law. D Appleton & Co's Text Books for all branches taught in the Arizona public schools (Copies of circulars ordered printed by the Board are pasted upon pages 40, 42, 43, & 44, of this Book) giving terms of "Exchange" "Introduction &c" and directions to County School Supts & other officers how to proceed to make the change. At this meeting propositions for Text Books were presented by A. S. Barnes & Co New York. A L Bancroft & Co San Francisco & other publishing Houses. All of which were rejected on account of high rates of "Exchange" asked. Also in the opinion of the Board. Appletons Text Books were considered superior.
The resolution passed by the Board was to the effect that the contract entered into with J. J. White & Co for D Appleton & Co was to be binding for the period of two years from date of said contract. Meeting adjourned

M K Sherman
Sec. Board

Office Supt Pub Inst
Prescott April 8th 1881

At a Meeting of the Territorial Board of Education held this day, Present T J Butler Presid Treas & M A Sherman

A Contract for furnishing text Books from D Appleton & Co read — approved and signed

~~also a Contract from A L Barnes & Co of New York to furnish certain text Books, read, adopted, and Signed, also Contract from Ivison Blakeman Taylor & Co read adopted and Signed~~

The following apportionment of Territorial School Funds to the different Counties was Made, as per Chapt 61. Sec 10. of School Laws of 1879.

Yavapai	County	1421.	Children @45¢	$409.95
Yuma	"	608.		273.60
Mohave	"	172		77.40
Maricopa	"	764		343.80
Pima	"	1335		600.75
Apache	"	621		279.45
Pinal	"	601		270.45
		5072.		$2255.40

Each child being allowed $0.45¢

Meeting adjourned pursuant to Call of the President

M A Sherman
Supt Pub Inst

Office of Supt Public Instr.
Prescott Sept. 1871

A meeting of the Territorial Board of Education was held this day. Present Hon. J. J. Gosper (Acting Governor) Frank Mesdor (Acting Territorial Treasurer and Hon. E. W. Wells, who acted for the Supt. of Public Instruction who was absent from Prescott in the Southern part of the Territory visiting schools.

The acting Treasurer reported not sufficient money in the Territorial Treasury for an apportionment to the different counties. And as there seemed to be no business before the Board it adjourned subject to the call of the President (this from a record kept by Mr. Wells)

M. H. Sherman
Supt. of Pub.

Office of Supt. Pub. Instr.
Prescott Oct 3/1881

At a meeting of the Territorial Board of Education held this day by the act of the President, W.H. Sherman — Present Hon. Frank Meador, (acting Ter. Treasurer) Hon. J.J. Gosper and Supt. W.H. Sherman.

The following apportionment of Territorial School Funds was made to the different counties as per Sec. 10 Chap. 61 of school laws of 1879.

Yavapai	County	$ 337.0
Yuma	"	224.8
Mohave	"	63.6
Maricopa	"	241.6
Pima	"	223.8
Graham	"	129.5
Cochise	"	278.61
Pinal	"	93.2
Apache	"	29.7
Gila	"	129.11
		$1953.38

Meeting adjourned pursuant to the call of President.

W.H. Sherman
Supt. Pu

Office of the Board of Education
Prescott A.T. Feb 7th 82.

At a meeting of the Board of Education held this day in the Territorial Library — Present — D.A. Tritle Gov — J.J. Butler Territorial Treasurer. and M.H. Sherman Supt of Education.

Minutes of the meetings held by the Board of Education during the year 1881. were read and approved

The following apportion of the Territorial school money was made as per school tax.

			$
1	Yavapai	County	455.50
2	Yuma	"	304.00
3	Yokuts	"	86.00
4	Maricopa	"	326.50
5	Graham	"	175.00
6	Cochise	"	376.50
7	Pinal	"	176.00
8	Apache	"	310.50
9	Gila	"	174.50
10	Pima	"	315.50
			$ 2650.00

Meeting adjourned subject to call of Pres't —

M.H. Sherman
Sec of Board

Office of the Board of Education
Prescott A.T. May 11th 82.

The Board of Education met this day at the office of the Territorial Treasurer. Present — Hon. F. J. Butler Treas. & M. H. Sherman.

The following apportionment of Territorial School money was made as per Chapter 61 Sec 10 of School Laws of Arizona 1879.

			$
1	Yavapai	County	897.10
2	Yuma	"	668.80
3	Mohave	"	799.70
4	Maricopa	"	718.30
5	Pima	"	914.10
6	Graham	"	385.00
7	Cochise	"	828.00
8	Pinal	"	777.20
9	Apache	"	683.10
10	Gila	"	383.90
			$ 6050.00

Meeting adjourned pursuant to call of Pres't —

M. H. Sherman
Secy & Pres't of Board of Ed.

Office of the Board of Education
Prescott A.T. Oct 31st 1887.

Meeting of the Board of Education was called this day by order of the President.
— Present. Hon T J Butler & M H Sherman

A List of Persons entitled by Law to Life Diplomas at the hand of the Board read and approved and the same ordered issued.
There being only a small amount of Territorial School money on hand it was decided not to make an apportionment to the different Counties at this time. There being no further business the Meeting adjourned pursuant to call of President.

M. H. Sherman
Sec'y Board

The following is a partial List of those to whom Life Diplomas have been granted during the Years 1879, 80, 81, & 82, to wit—

D. M. Martin Prescott ✓
Mary Snyder " ✓ Refused to Teach
Mrs. J. [illegible] " Residence unknown
" Sparks Verde In Penitentiary
Geo. C. A. Alley Tucson Left Territory
Miss C. [illegible] " ✓
Mrs Marietta White " ✓
Miss Emma Munk "
Mr Gregory Wife " ✓
Miss Dallas Wood " ✓
" Lizzie Barton " ✓
Prof Trembur Wife Phoenix Left
× Mrs Cox " ✓
× Miss C Buster Tucson Left
× Fred Stanton Wife Florence ✓
M. M Sherman Tombstone ✓
W. B. Norton Tucson Not notified.
× Mrs Bradley Contention City
Miss B. E. Lovily Prescott
" Rose Hardenburg Phoenix
× Mrs Columbar Prescott
" Emma Norton Yuma ✓
× Miss Sadie Tombstone
" Peel " Left Territory
[illegible] Phoenix ✓

* {Those having stars opposite their names have Diplomas issued for 6 years only}

Entered in minutes for approval Rules & Reg. for Exam of Teachers.

Oct 7th 83 – 2nd Grade Diploma of Iowa Kindr, dated
Nov 10, 83 renewed for 6 years

Office, Sup't of Public Instruction
Prescott A.T. January 6. 1883.

A meeting of the Board of Education was held this day at the office of the Governor.

Present:
F. A. Tritle, Governor,
E. J. Butler, Territorial Treasurer
M. H. Sherman, Sup't of Public Instruction

The following apportionment of Territorial School funds was ordered by the Board

Yavapai	$ 1411.00
Yuma	608.00
Mohave	672.00
Maricopa	1064.00
Gila	392.00
Pima	1335.00
Pinal	601.00
Apache	621.00
Cochise	1107.00
Graham	508.00
	$ 8319.00

Meeting adjourned subject to call of the President.

M. H. Sherman
Secy and President

Office of Supt. of Public Instruction
Prescott A. T. Jany 2d, 1883

A meeting of the Board of Education was held this day at the office of the Governor. Present;

F. A. Tritle Governor
T. J. Butler, Territorial Treasurer
H. B. Horton Supt. Public Instruction
M. H. Sherman Ex. Supt. " "

Minutes of the meeting held by the Board on Jany 6th read and approved.

On motion of Governor Tritle, seconded by Hon T. J. Butler, the report of ex. Supt. M. H. Sherman was received. [illegible] file.

Moved and seconded that the report of M. H. Sherman Supt. of Public Instruction for the fiscal term ending Jany 10th A.D. 1883 be remitted by the Board of Education to the Hon. The House of Representatives, with the request that the same be published according to the terms of section 5 of an act, entitled "An act to establish Public Schools in the Territory of Arizona" approved February 14, 1879, by which section it is made the duty of the Board of Education to have said report published. There being no fund created by the Legislature out of which the Board of Education could draw the amount required to defray the cost of ~~said~~ having said report published your Honorable Bo is hereby requested to have said report put in place and stead of the Board of Ed

Motion carried.

Office of Supt. of Public Instruction
Prescott Feby 21st 1883.

A meeting of the Board of Education was held this day at the office of the Governor.

Present.
F. A. Tritle Governor
T. J. Butler Territorial Treasurer.
W. B. Norton Supt. Public Instruction

The following apportionment of Territorial school money was made by the Board.

# S		$
608	Yuma	510.72
924	Apache	776.16
620	Pinal	520.80
2080	Yavapai	1747.20
2485	Pima	2087.08
1320	Maricopa	1108.80
457	Graham	378.84
228	Mohave	191.52
35	Gila	113.40
294	Cochise	1086.96
10147		$ 8523.48

amt apportioned to each person being 84¢.

Meeting adjourned subject to call of the President.

W. B. Norton
Secretary.

The rules and regulations prepared by the Supt. of Pub. Instruction for the use of the County Boards of Examiners is hereby adopted. a copy of which is hereunto annexed marked Exhibit "A"

W B Norton

Exhibit "R"

Regulations for County Boards of Examiners,

PREPARED BY THE

SUPERINTENDENT OF PUBLIC INSTRUCTION.

GRADE OF SCHOOLS.

The Public Schools shall be classified as first and second grade schools.

Only such teachers as hold a first grade County Certificate or Territorial Diploma shall be entitled to teach first grade schools.

All schools having at least four pupils studying the Fifth Reader, the Practical or Complete Arithmetic, the English Grammar, the Higher Geography and the History of the United States shall be known as first grade schools; all others shall be known as second grade schools.

The schools of each county shall be graded annually, in the month of September, by the County Superintendent with the consent of the County Board of Examiners.

Rules Governing the Examination of Teachers.

RULE 1. Applicants for admission must present satisfactory evidence of moral character, and must be not less than eighteen years of age.

RULE 2. All papers must be written in ink.

RULE 3. Candidates are required to answer in complete sentences as far as practicable.

RULE 4. Full credits will be given only when answers are correct in fact and form.

RULE 5. In written grammar, proper allowance will be made for difference of opinion.

RULE 6. The Board may, at its option, grant extra credits for experience in teaching, not to exceed four per cent. of the whole number required in answering questions.

RULE 7. The Board reserves the right to reject all papers in which there is evidence of collusion or fraud.

RULE 8. No applicant will be permitted to have any books in his or her possession during the hours of examination, or take, from the room where the examination is being held, any examination papers. Any one violating this rule shall be subject to dismissal from the examination.

RULE 9. All applicants must endorse their papers with their names and the name of each subject.

RULE 10. The Board will not recommend to the Territorial Board of Education an application for a diploma of any teacher who shall not furnish satisfactory evidence of having been engaged in teaching for at least one year.

RULE 11. All applications for renewal of certificates or recommendations for diplomas must be filed with the Secretary, and will be considered by the Board only at the meetings held for the examination of teachers.

RULE 12. All examinations shall be held at the county seat of each county in March, June, September and December of each year. Boards of examiners may meet at such other times as they deem advisable.

RULE 13. The following shall be the credits attached to the several studies enumerated [illegible] seventy-five per cent. of the aggregate credits shall be required to secure a certificate of either grade.

FIRST GRADE.		SECOND GRADE.	
Arithmetic, written	100	Arithmetic—written	[illegible]
Grammar—written	100	Grammar—written	[illegible]
Orthography	100	Orthography	[illegible]
Arithmetic—oral	50	Arithmetic—oral	[illegible]
Grammar—oral	50	Grammar—oral	[illegible]
Geography	50	Geography	[illegible]
History	50	History	[illegible]
Methods of Teaching	50	Methods of Teaching	[illegible]
Penmanship	50	Penmanship	[illegible]
Composition	50	Composition	[illegible]
Physiology	50	Word Analysis	[illegible]
Algebra	50		
Word Analysis	50		

RULE 14. Any applicant failing to receive fifty per cent. on either Arithmetic, Grammar, [illegible] raphy shall be debarred from any further participation in the examination.

Office of Supt. of Pub. Instruction
Prescott Apl. 26, 1883.

A meeting of the Board of Education was held this day at the office of the Governor.

Present
F. A. Tuttle Governor
T. J. Butler Territorial Treasurer

The following apportionment of Territorial School money was made by the Board on a basis of 25¢ to each person of school age.

Yuma	152	
Apache	231	
Pinal	155	
Yavapai	520	
Pima	621.75	
Maricopa	330.	
Graham	112.75	
Mohave	57.00	
Gila	33.75	
Cochise	323.50	$2536.75

Meeting adjourned subject to call of the President.

T. J. Butler Sec. Pro tem

Office of Supt. of Pub. Instruction
Prescott Oct. 19, '83

At a meeting of the Territorial Board of Education held this day
Present. T. A. Little President
T. J. Butler Secretary pro tem.
The Territorial Treasurer reported cash on hand in Territorial school fund $4688 which the Board proceeded to apportion to the several counties as follows.

2317	Pima County.	$1158.50
1352	Yavapai "	676.00
1317	Maricopa "	658.50
1013	Cochise	506.50
1126	Apache	563.00
649	Yuma	324.50
635	Graham	317.50
634	Pinal	317.00
199	Gila	199.50
154	Mohave	77.00
9376		$4688.00

Meeting adjourned subject to call of the President.

T. J. Butler
Acting Secretary

Supt. " Nicholas Schools [illegible] not fraud [illegible]
" " " " " " [illegible]
[illegible]

Office of Territorial Board of Education
Prescott Jany 29th '84

At a meeting of the Territorial Board of Education held this day.
Present T. A. Tuttle President
T. J. Butler Secy Pro. Tem.
The Territorial Treasurer reported cash on hand in Territorial school fund $15,470.40/100 which the Board proceeded to apportion to the several counties as follows on the basis of $1.65/100 to the child of school age.

2317	Pima County	$3823.05
1352	Yavapai "	2230.80
1317	Maricopa "	2173.05
1013	Cochise "	1671.45
1126	Apache "	1857.90
649	Yuma "	1070.85
635	Graham "	1047.75
634	Pinal "	1046.10
179	Gila "	266.10
154	Mohave "	254.10
9218		15,470.40

Meeting adjourned subject to call of the President.

T. J. Butler
Acting Secy.

Office Territorial Board of Education
Prescott May 6th 1884.

At a meeting of the Territorial Board of Education held this day.
Present F. A. Smith President
T. J. Butler Secty Pro. Tem.
The Territorial Treasurer reported cash on hand in Territorial School fund $8063.36 which the Board proceeded to apportion to the several counties on the basis of 86 cents to the child of school age.

2317	Pima	$1992.62
1352	Yavapai	1162.72
1317	Maricopa	1132.62
1126	Apache	968.36
1013	Cochise	871.18
649	Yuma	558.14
635	Graham	546.10
634	Pinal	545.24
179	Gila	153.44
154	Mohave	132.44
		8063.36

Meeting adjourned subject to the call of the President.

T J Butler
Acting Secty.

Office Territorial Board of Education
Prescott Aug. 25th 1884

Territorial Board of Education met at 10 A. M at the office of Acting Governor Van Arman.
Present N. M. Van Arman President
T. J. Butler Acting Secy.
The Territorial Treasurer reported no funds in the Territorial School fund. In the matter of the application of J. H. Piper, D. B. McCutchen and G. H. Hasle for Territorial Diplomas the papers were ordered sent to Hon. W. B. Hooper Territorial Supt. at Tucson for his action. There being no further business the Board adjourned subject to the call of the President.

T. J. Butler
Acting Secy.

Office of Territorial Board of Education
Prescott Oct. 15, 1884.

The Territorial Board of Education met at the office of Governor F. A. Tritle at 10 A. M.

Present F. A. Tritle Governor
T. J. Butler Territorial Treasurer
W. B. Hinton Supt. Pub. Instruction

The communication of J. H. Dugall's with reference to closing the schools of Maricopa County was respectfully referred to the County Supt. of Maricopa County.

The Supt. of Public Instruction laid before the Board all the letters and information he had obtained in reference to lands for University purposes and was instructed to ascertain from the Commissioner of the Land Office what steps had been taken by the Department concerning said lands.

The Superintendent submitted to the Board the following list of names to whom Territorial Diplomas had been granted and upon examination of papers his acts in relation thereto were approved.

See O. 64 Revoked Aug 17 1885

June 16" 1883	B. J. McGinnis		1st	Grade
July 3 "	Mrs Annie C. Reardon		1 "	Certificate
Aug. 16 "	Mrs. Jennie Hallock		2 "	"
Sept. 20 "	Mrs S. E. Cox		1	" ✓
" 20 "	Mrs A. H. Bury		1	" ✓
" 30 "	Miss Julia Dobs		2	"

October 8th 1883	Mrs Ida Kimble	2 Grade		
" 9 "	Mrs H.B. Lawrence	1 "		✓
Dec. 7 "	Miss Minnie Martin	1 "		
" 7 "	Miss Anna McCoy	1 "		✓
" 7 "	Miss Martha McCullough	2 "		
" 7 "	H. L. Van Horn	1 "		
Sept. 9 1884	Miss L.L. Allen	2 "		
" 11 "	Josiah R. Piper	2 "		
" 11 "	D.B. McCutchen	2 "		
" 11 "	G. H. Nash	2 "		
" 29 "	L. M. Pence	1 "		
" 29 "	B. F. McDonald	1 "	Left	
" 29 "	Mrs Lillie Hall	1 "		✓
Oct. 2 "	A. A. Wood	1 "	Left	
" 8 "	W. H. Houslow	1 "		✓
" 9 "	Miss Ida G. Dagg	1 "		✓
" 9 "	Joseph Sessions	1 "	Left	
" 15 "	C. J. Grewer	1 "		
" 15 "	N.B. Farmer	1 "	not enrolled	

Meeting adjourned subject to the call of the President.

W.B. Houlow
Secty.

Office of the Governor, Prescott A.T. Jan. 18. 1885

The Territorial Board of Education met at the office of the Governor.

Present: Hon. F. A. Tritle Chairman
Hon. T. J. Butler, Ter. Treas. and Acting Secy.

The Territorial Treasurer reported in Territorial School Fund subject to distribution the sum of $19,722.15—.

The Board proceeded to distribute to the several Counties $19,689.60 on the basis of $2.10 to the census child of school age as follows, viz; —

Pima County	2317	Children	4 865 70
Yavapai	1352	"	2,839 20
Maricopa	1317	"	2 765 70
Apache	1126	"	2 364 60
Cochise	1013	"	2 129 30
Yuma	649	"	1 362 90
Graham	635	"	1 333 50
Pinal	634	"	1 331 40
Gila	179	"	375 90
Mohave	154	"	323. 40
Total	9376		$19,689. 60

Board adjourned to meet at call of the Chairman.

Approved: F. A. Tritle
President

T. J. Butler Ter. Tr.
Actg. Secy.

Office of the Governor, Prescott, Feb. 13. 1885

The Board of Education convened on the above date at the call of the Governor.

Present: F. A. Tritle President of Board,
R. L. Long Supt. Pub. Inst. & Secy.

Miss Helen F. Bean having filed with the Secretary an application for a Territorial Diploma, accompanied by a certified copy of a resolution adopted by the Board of Examiners of Yuma County recommending that the same be granted, and proof in the form of affidavits that said applicant had been engaged in teaching for a period of more than one year and having also forwarded the answers to the Examination Questions for December in due form, and it appearing from the evidence presented that said applicant is entitled to a Diploma

It is ordered that the Secretary of this Board be directed

to issue to Miss Helen F. Beam a Second Grade Territorial Diploma of this date.

Board adjourned.

Approved: F. A. Tritle
President

R. L. Long
Secretary

Prescott, A.T., April 13, 1885

The Territorial Board of Education convened this day at the office of the Governor.

Present: His Excellency F. A. Tritle, President.
T. J. Butler, Territorial Treasurer.
R. L. Long, Secy and Supt Public Instruction

Miss Lillie N. Taft having filed with the Secretary of this Board an application for a Life Diploma accompanied by a Diploma issued by the Massachusetts State Normal which authorizes said applicant to teach in the public schools of said State, and having also filed a copy of a resolution adopted by the Board of Examiners of Pima County recommending that a Diploma be issued to her, and having furnished proof that she has taught for more than one year

It is hereby ordered that the Secretary of this Board issue to said applicant a Life Diploma under the seal of this Board.

The application of Samuel P. Carusi for a Life Diploma based upon a Life Diploma issued him in California was denied, until said applicant presents to this Board a copy of a resolution of the Pima County Board of Examiners recommending the issuance of such Diploma.

Mrs. Carrie Stanton having presented to the Board evidence of her qualificat and experience in teaching accompanied by a copy of a resolution of the Mar County Board of Examiners and having held a 2nd Grade Diploma for mo than four years and proof that she has taught for more than

It is hereby ordered that a Life Diploma do issue to said applic date.

Board adjourned.

R. L. Lo

Approved: F. A. Tritle
Pr

Prescott A.T. August 17. 1885

The Board of Education of Arizona Territory Convened on the above date at the office of the Governor, on the call of the Secretary.

Present: His Excellency F. A. Tritle President of Board
Hon. T. J. Butler Territorial Treasurer.
and R. L. Long Sec. and Supt. of Public Instruction.

The Superintendent of public instruction reported to the Board that he had prepared Rules and Regulations for the Government of Schools and School Libraries and had caused the same to be printed in the appendix to the School Laws.

Upon examination of the same it is ordered that said Rules and Regulations &c. be and they are hereby adopted.

Said Rules and Regulations are as follows, to wit:

RULES AND REGULATIONS

FOR THE GOVERNMENT OF THE PUBLIC SCHOOLS OF ARIZONA TERRITORY.

ADOPTED BY THE TERRITORIAL BOARD OF EDUCATION.

1. Teachers are required to be present at their respective school-rooms, and to open them for the admission of the pupils, at *fifteen minutes before* the time prescribed for commencing schools, and to observe punctually the hours for opening and closing school.

2. The daily school session shall commence at nine o'clock, A. M., and close at four o'clock, P. M., with an intermission at noon of one hour, from twelve, M., to one o'clock, P. M. There shall be allowed a recess of twenty minutes in the forenoon session—from ten-forty to eleven o'clock—and a recess of twenty minutes in the afternoon session—from two-forty to three o'clock. When boys and girls are allowed separate recesses, fifteen minutes shall be allowed for each recess.

3. In graded primary schools in which the average age of the pupils is eight years, the daily session shall not exceed four hours a day, exclusive of the intermission at noon, and inclusive of the recesses. If such schools are opened at nine o'clock, A. M., they shall be closed at two o'clock, P. M. In ungraded schools, all children under eight years of age shall be either dismissed, *after a four hours session*, or allowed recesses for play, of such length that the actual confinement in the school-room shall not exceed *three hours and a half*.

4. [illegible]

their own , on , under the general direction of the principals.

6. Teachers are particularly enjoined to devote their time faithfully to a vigilant and watchful care over the conduct and habits of the pupils *during the time for relaxation and play* before and after school, and *during the recesses*, both in the school-buildings and on the play-grounds.

7. It is expected that teachers will exercise a general inspection over the conduct of scholars going to and returning from school. They shall exert their influence to prevent all quarreling and disagreement, all rude and noisy behavior in the streets, all vulgar and profane language, all improper games, and all disrespect to citizens and strangers.

8. Teachers shall prescribe such rules for the use of yards, basements and outbuildings connected with the school-houses, as shall insure their being kept in a neat and proper condition, and *shall examine them* as often as may be necessary for such purpose. Teachers *shall be held responsible* for any want of *neatness or cleanliness* about their school premises.

9. Teachers shall give vigilant attention to the *ventilation* and *temperature* of their school-rooms. At each recess the windows and doors shall be opened for the purpose of changing the atmosphere of the room. Teachers are required to exercise reasonable supervision over the text-books of the pupils, to inspect the same from time to time, and prevent their defacement or wanton destruction.

10. Teachers shall enter in the school register, in the order of their application, the names of all those applying for admission to the school after the prescribed number of pupils has been received. Such applicants shall be admitted to seats whenever a vacancy occurs in any class for which they have been found duly qualified in the order of their registration.

11. Teachers are authorized to *require excuses* from the parents or guardians of pupils, either in person or by written note, in all cases of *absence* or *tardiness*, or of dismissal before the close of school.

12. No pupil shall be allowed to retain connection with any public school, *unless furnished with books, slates, and other utensils* required to be used in the class to which he belongs; *provided*, that no pupil shall be excluded for such cause, unless the parent or guardian shall have been furnished by the teacher with a list of books or articles needed, and one week shall have elapsed after such notice without the pupil's obtaining said books. Books may be furnished to indigent children by the Trustees, at the expense of the district, whenever the teacher shall have *certified in writing* that the pupil applying is unable to purchase such books.

13. Any pupil who shall in any way cut [illegible] o [illegible] erwise injure any school-house, or inj[illegible] ings belonging to any of the [illegible] profane or obscene lan[illegible] characters on the scho[illegible] expulsion or other pu[illegible] offense. The *teacher* [illegible] such offense, and *sh*[illegible] Pupils shall [illegible] that are pro[illegible]

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to purchase for use in ly book not contained in
the list of books directed and authorized to be used in the schools.

17. It shall be the duty of the teachers of the schools to read to the pupils, from time to time, so much of the school regulations as apply to them, that they may have a clear understanding of the rules by which they are governed.

18. In all primary schools, exercises in free calisthenics and vocal and *breathing exercises* shall be given at least twice a day, and for a time not less than from three to five minutes for each exercise.

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19. The following supplies shall be provided by the District Clerk under the provisions of Section 78, on the written requisition of the teachers, viz.: clocks, brooms, dusting brushes, wash basins, water buckets, tin cups, dust pans matches, ink, ink bottles, pens, pen holders, pencils, crayon chalk, hand bells, coal buckets or wood boxes, shovels, pokers, *soap*, towels, thermometers, door mats, and scrapers.

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20. Trustees are required to employ a suitable person to sweep and take care of the school-house, and they shall make suitable provision for supplying the school with water.

21. It shall be the duty of teachers to report to the County Superintendent the books used in their schools, together with the number of pupils in the several divisions of each grade. This report must be made at the beginning and close of each school session or year.

22. The District Clerk, at the close of each term of school, or whenever a teacher is discharged, shall certify on the back of the order for the *last month's* salary that the School Register has been properly kept.

RULES FOR PUPILS.

1. Every pupil is expected to attend school punctually and regularly; to conform to the regulations of the school, and to obey promptly all the directions of the teacher; to observe good order and propriety of deportment; to be diligent in study, respectful to teachers, and kind and obliging to schoolmates; to refrain entirely from the use of profane and vulgar language, and to be clean and neat in person and clothing.

2. Pupils are required in all cases of absence to bring, on their return to school, an excuse in writing from their parents or guardians, assigning good and sufficient reasons for such absence.

3. All pupils who have fallen behind their grade, by absence or irregularity of attendance, by indolence or inattention, shall be placed in the grade below, at the discretion of the teacher.

4. No pupil shall be permitted to leave school at recess, or at any other time before the regular hour for closing school, except in case of sickness, or on written request of parent or guardian.

5. Any scholar who shall be absent one week without giving notice to the teacher, shall lose all claim to his particular desk for the remainder of the term, and shall not be considered a member of the school.

6. Each scholar shall have a particular desk, and shall keep the same and the floor beneath in neat and orderly condition.

INSTRUCTIONS TO TEACHERS.

1. Teachers will endeavor to make themselves acquainted with parents and guardians in order to secure their aid and co-operation, and to better understand the temperaments, characteristics, and wants of the children.

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they are to strive to
precepts ple, the
forts for improvement in morals, and manners, t-
ment, as well as in useful learning.

3. Teachers should explain each new lesson assigned, if necessary, by familiar remarks and illustrations, that every pupil may know, before he is sent to his seat, what he is expected to do at the next recitation, and how it is to be done.

4. Teachers should only use the text-book for occasional reference, and should not permit it to be taken to the recitation, to be referred to by the pupils, except in cases of such exercise as absolutely require it. They should assign many questions of their own preparing, involving an application of what the pupils have learned to the business of life.

5. Teachers should endeavor to arouse and fix the attention of the whole class, and to occupy and to bring into action as many of the faculties of their pupils as possible. They should never proceed with the recitation without the attention of the whole class, nor go round the class with recitation always in the same order or in regular rotation.

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6. Teachers should at all times exhibit proper animation themselves, manifesting a lively interest in the subject taught; avoid all heavy plodding movements, all formal routine in teaching, lest the pupil be dull and drowsy, and imbibe the notion that he studies only to recite.

RULES FOR DISTRICT LIBRARIES.

1. The Librarian appointed by the Trustees shall properly label and number each book in the district library, and keep a catalogue of the same, showing the title and number of each book.

2. The library shall be open for drawing and returning books [here insert such time as may be determined by the Trustees and Librarian].

3. Every child attending school shall be entitled to the privileges of the library; but when the number of books is insufficient to supply all the pupils, the Librarian shall determine the manner in which books may be drawn.

4. No person shall be entitled to two books from the library, and no family shall draw more than one book while other families wishing books remain unsupplied.

5. No person shall loan a library book to any one out of his own house, under a penalty of fifty cents for each offense.

6. No person shall retain a book from the library more than two weeks under a penalty of ten cents for each day he may so retain it, and no person may draw the same book a second time while any other person wishes to draw it.

7. Any person losing or destroying a library book shall pay the cost of such book and a fine of fifty cents; and any person injuring a book by marking, tearing, or unnecessarily soiling it, shall be liable to a fine of not less than ten cents nor more than the cost of the book, to be determined by the Librarian.

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8. Any person refusing or neglecting to pay any penalty or fine shall not be allowed to draw any book from the library.

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10.

The foregoing law empowers the Board of Education to adopt a list of books for school libraries. This power the Board has not seen fit to exercise at this time, believing that with the limited amount of school money authorized to be expended for library books the trustees of the districts will use good sense in making selections, and carefully exclude from the libraries all books of a sectarian or partisan nature.

It is suggested, however, that the first purchases be of *books of reference* only, which are to the scholar what the railroad guide is to the traveler. Next to knowing a thing is knowing where to find what is known about it; and books of reference, such as dictionaries and encyclopedias, though they seem costly are the most valuable and cheapest for small libraries.

The Superintendent of Public Instruction and County Superintendent will cheerfully assist trustees in making selections.

GRADE OF SCHOOLS, ETC.

First. All schools in which there is a class of three or more pursuing studies in the First Grade as laid down in the "Course of Study" are Grammar Schools. All others are Primary Schools.

Second. While the course of studies prescribed by the Board of Education should be strictly adhered to with pupils attending from year to year, yet a wise discretion should be exercised by Superintendents and teachers in deciding how closely it should be followed with pupils who are only in school a few months, or who, from age or other circumstances, are soon to leave the public schools.

Studies pursued by pupils out of the regular course (in the "discretion of Superintendents and teachers") *i. e.*, the studies of the lower grades not having been completed, *do not effect the grade of the schools.*

Third. Pupils are to be promoted on an average of seventy per cent.

Fourth. Examinations for promotion should be discouraged, because they consume much valuable time that can be more profitably spent, and tend to make promotion, rather than *thoroughness*, the leading object of the pupils.

Except in questionable cases, the qualification for promotion should be determined from the term records of the school.

The Board adopted the following as the Seal of this Board, viz: The Coat of Arms of Arizona in the center surrounded by the words: "Board of Education Arizona Territory"
The following is an impression of said Seal:

The Secretary having submitted evidence proving that one B. J. McGinnis is an habitual drunkard, gambler and an improper person to teach school, It is hereby ordered that the Territorial (Life) Diploma

heretofore issued to said McGinnis be and the same is hereby revoked and cancelled on the grounds of immorality.

The Board adjourned subject to call of Secretary.

Approved:

R L Long
Secretary.

F. A. Tritle
President

Prescott, Aug. 31, 1885

The Board of Education met at the office of the Territorial Treasurer.
Present: Hon. F. A. Tritle President, Hon. T. J. Butler Treas. and R L Long Secy.

The Territorial Treasurer reported the sum of $7821.98 in the Territorial School Fund subject to distribution.

The Superintendent of Public Instruction under the supervision of the Board disapportioned the sum of $7260.88 among the Counties on the basis of 74 cents to each census child between the ages of 6 and 18 years as follows:

Apache County, reporting	1074 children,	74¢ each		794.76
Cochise " "	1524	"		1127.76
Graham " "	892 485	"	Error see page 77	358.90
Gila " "	258	"		190.92
Mohave " "	196	"		145.04
Maricopa " "	1415	"		1047.10
Pima " "	2179	"		1612.46
Pinal " "	768	"		568.32
Yuma " "	605	"		447.70
Yavapai " "	1308 / 9812			967.92
				7260.88
				301.18
				7562.06

Board adjourned

Approved:

F. A. Tritle
President

R L Long
Sec.

Prescott, Ariz. Sept. 26, 1885

The Board of Education met at the office of the Territorial Treasurer on the above date at the call of the Secretary.

Present: H. Butler, President, Pro tem.
R. L. Long — Secretary.

The Superintendent of Public Instruction submitted the following which was adopted, viz:

Whereas Section 81 of the School law provides that instruction must be given in the public schools of the Territory in the following branches, viz: Reading, writing, orthography, arithmetic, geography, grammar, U. S. history, physiology, bookkeeping and industrial drawing and such other studies as this Board may prescribe,

Now in order that the subjects taught shall correspond with the studies in which teachers are required to be examined for certificates and that the branches of study laid down in the Course of Study may be legally pursued and also that an opportunity be given to those school districts having superior school facilities, to establish and maintain classes in which studies usually pursued in High Schools are taught,

It is hereby ordered that the following branches of study be prescribed in addition to those required by law, viz: algebra, natural philosophy, universal history, political economy, geometry, geology, chemistry, the Spanish language and the Latin language. Said order is subject to the following provisos:

1. Such additional branches of study shall not be taught to the exclusion of those enumerated in said Section 81 of the School law.

2. Trustees of districts are not authorized to employ special teachers to give instruction in any particular branch, but all teachers must pass the examinations prescribed by law and in case of their employment to teach ~~branches~~ classes in which instruction is given in studies in which they ~~were~~ are not required to be examined, they must present satisfactory evidence of their ability to give instruction in such studies to the Board of Examiners of the County and to the Trustees of the district.

3. This Board entered into a contract with D. Appleton & Co. of New York in April 1881 by the terms of which they are to furnish text books for the schools of the Territory for a period of five years. Their publications must be used in all the studies taught.

H. Butler
Pres. Pro tem.

R. L. Long
Secy.

Prescott, Ariz. April 21. 1886

The Board of Education convened on the call of the Secretary, at the office of the Governor on the above date.

Present: Governor C. Meyer Zulick, Pres.
Ter. Treasurer, F. J. Butler
Supt. Pub. Inst. R. L. Long, Sec.

The Treasurer reported no money to the credit of the Territorial School Fund subject to distribution.

The Secretary called attention to the following error in the distribution of School money on August 31. 1885: The County of Graham received 74 cents for each of 485 school census children, when said County had a school population of 892 and was entitled to receive $660.18 instead of $358.90 the sum apportioned on said date. On motion it was ordered that the Superintendent be authorized to certify to the Auditor that the sum of $301.18 is due said County and that he draw his warrant for said amount on the Territorial Treasurer payable out of the Territorial School Fund, in favor of the Treasurer of said County whenever there is sufficient money in said Fund to pay it.

Certificate dated Apr 22 Rec'd Aud'r

The contract with D. Appleton & Co. for supplying the schools with text-books having expired the subject of changing the books was considered.

The Superintendent presented the following circular on the subject, which he had caused to be distributed among the teachers of the Territory:

T

e, will expire on

At an early day it will become the
to decide what changes if any
books or whether the present
for another year.

As the teachers in the schools of the Te a
class, best qualified to judge of
of the books now used, the

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To this 63 replies had been received, classified as follows:

Number wishing no change in text-books	14
" " Complete " " " "	20
" " change in Arithmetics	21
" " " " Grammars	24
" " " " Spellers	24
" " " " Readers	26
" " " " Geographies	21

These replies indicating no general dissatisfaction with the text-books now in use, action on the subject was deferred.

The following was presented by the Superintendent of Public Instruction and adopted by the Board:

Whereas, The requirements for the issuance of Territorial Diplomas have been materially changed; and

Whereas: Under the present law large experience and a high order of scholarship are required to entitle a teacher to a Territorial Diploma; and

Whereas It is represented that under former laws many Diplomas were issued to persons without the necessary qualifications or experience to hold the same; and

Whereas; It is desirable in the interest of public instruction and the welfare of the public schools that only able and competent teachers should hold Territorial Diplomas; Therefore be it,

Resolved: That the Superintendent of Public Instruction be and he is hereby directed before the 1st day of July 1886 to cause a re-examination to be made of all persons holding Territorial Diplomas issued prior to May 1st 1885, in order that their capacity and qualifications to hold the same may be fully established or their unfitness demonstrated; that due notice be given to all such persons, and that if any refuse to submit to the said re-examination or fail in such examination to meet the requirements in scholarship established, then their Diplomas shall and the same will be revoked upon the report of the Superintendent of Public Instruction.

There being no further business the Board adjourned subject to the call of the Secretary.

R. L. Long
Sec.

Approved
Mayo Fesler

Prescott Arizona Oct. 4, 1886

The Territorial Board of Education convened this day at the office of the Acting Governor in Prescott, at the call of the Secretary.

Present: Territorial Secretary, James A. Bayard Acting Gov.
Territorial Treasurer, T. J. Butler
Supt. of Public Instruction, R. L. Long Secy.

The Territorial Treasurer reported no School funds on hand subject to distribution.

Bids or proposals from the following named publishers for supplying the public schools of the Territory with text-books on the subject of "Physiology and Hygiene with special reference to the effects of alcohol and narcotics on the human system" as per law of Congress approved May 20. 1886 were opened and found to be as follows, to wit:

A. S. Barnes Geo. Ny. by E. F. Adams Agt. San Francisco proposed to furnish the following named books at the prices set opposite each of them,

Books.	Exchange (to be maintained until Sept. 1, 1887)	Introductory	Wholesale.	Retail
The Child's Health Primer	.15	.30	30	.35
Hygiene for Young People.	25	.50	50	.60
Steele's Hygienic Physiology	60	1.00	1.00	1.25
Steele's Abridged Physiology	25	.50	.50	.60

Any Physiology now in use to be exchanged for any book desired.

James T. White Geo. in behalf of D. Appleton Geo. of Ny. proposed to furnish the following named book at the prices set opposite, viz:
How we Live. Exchange, 30¢; Introductory 40¢; Wholesale 40¢; Retail 50¢.

Lee & Shepard, Boston, submitted the following bid:

Books.	Price
Child's Book of Health by Dr. Blaisdell	25¢ net
How to Keep Well " " "	35¢ "
Our Bodies and How we Live " " "	50¢ "

Porter & Coates, Philada, made the following proposal viz

Books.	Wholesale	Retail.
Elementary Physiology, Dunglison,	45¢	60¢
School " " "	90¢	1.20¢

Ivison Blakeman Taylor & Co. Ny & Chicago, submitted the following bid:

Agree to furnish the

	Exchange	Introd.	Wholesale	Retail
Hygiene	15¢	.30	30	35
	25¢	40¢	[illegible]	[illegible]

James T. White & Co. offered to furnish the schools with "The Essentials of Physiology and Hygiene" at the retail price of 10¢; wholesale .06

Each of the foregoing bids was accompanied by samples of the books proposed to be furnished.

The Secretary submitted to the Board proof that due notice had been given as required by law of the proposed change of Physiologies and of the adoption of a text-book on that subject.

On motion the Board adjourned until Oct. 5. 1886 at 11 o'clock. A.M.

R. L. Long
Secretary

Jas. A. Bayard
President.
T. J. Butler

Prescott Arizona Oct. 5. 1886

The Board convened pursuant to adjournment.

Present: James A. Bayard Acting Gov. Prest
T. J. Butler Territorial Treasurer
R. L. Long Supt. Public Instr. Secy.

On motion of T. J. Butler the bid or proposal of A. S. Barnes & Co for supplying the public schools of the Territory with text books on "Physiology and Hygiene having special reference to the effects of alcohol and narcotics on the human system" was accepted; and the following named text-books on that subject: were adopted for use in the public schools of this Territory to the exclusion of all others on said subject

The Child's Health Primer
Hygiene for Young People
Steele's Hygienic Physiology
Steele's Abridged Physiology

Messrs. Butler and Bayard voting Aye. Mr. Long voting No.

The Superintendent of Public Instruction by permission of the Board records his objections to the adoption of the foregoing books as follows:

1. They are too many in number and are unsuited to our school grades being but two grades of schools in the Territory — one Physiology for each
2. They are too high in price — their introduction will cost the parents children in attendance on the public schools not less than $5000.
3. Proposals to furnish other books equally meritorious at a

compliance with the terms of their bid and with the law, at the sum of $1000.00 and directed the Secretary to notify them or their agent of the acceptance of their bid and to request said publishing house to prepare a Contract and Bond and forward same to this Board for examination

W. L. Van Horn of Yavapai County, whose Territorial Diploma was revoked because of failure to attend the examination held in Prescott in June 1886, having given a satisfactory reason for such non-attendance, and having since viz: on Sept. 7-8 1886 passed a satisfactory examination before the Board of Examiners of said County.

It is ordered that the order of the Board revoking the Diploma of said Vanhorn made on July 10. last, be rescinded, and said Diploma shall have the same force and effect as if said order had not been made.

On motion of Mr. Butler the following was adopted:

Whereas we recognize the fact that so intricate a science or study as Physiology should be taught by object lessons, and that White's Physiological Manikin is admirably adapted to this purpose; yet it does not in our judgment fulfill all the requirements of the law of Congress requiring this Board to adopt a text book or books on this and kindred subjects, but partakes more of the character of school apparatus than of a text book. Therefore be it resolved, That the Board of Education earnestly recommend to County Superintendent and the Trustees of the various districts of the Territory the purchase in their discretion of this Manikin and the Essentials of Physiology and Hygiene which accompany and explain it, for all schools and grades having pupils deemed of sufficient age and advancement to understand it.

The Superintendent was instructed to inform school officers that ~~the~~ James T. White and Co. offer the "Manikin" at $15 with "the Essentials of Physiology and Hygiene" sufficient in number to supply all pupils in the School District purchasing it free.

In reply to the objections made by the Superintendent to the adoption of the Text-books in Physiology Messrs. Butler and Bayard incorporate the following in the minutes:

In view of the fact that R. L. Long Supt. of Public Instruction as a member of the Territorial Board of Education has seen fit to offer a written protest against the adoption of A. S. Barnes & Co's series of Physiologies, we as the r[illegible] of said Board by whose votes the said series have been

adopted, desiring to correct certain statements ~~made~~ contained in Mr. Long's protest and to place ourselves on record in this matter, submit the following reasons why in our judgment A.S. Barnes & Co. series is the most suitable for use in the public schools.

I. That this series deals more fully and directly with the effects of the use of tobacco alcohol and narcotics on the human system, than any of the other text books submitted for our consideration.

II. That this series is so graded as to meet the requirements of the oldest as well as the youngest pupils in our public schools.

III. That the object of the U.S. statute under which these books have been adopted is solely to introduce into the public schools a thorough system of instruction in the effects of tobacco, alcohol and narcotics on the human system.

IV. That in addition to the special instruction they contain in regard to tobacco &c. that as Physiologies they fulfill all requirements as text-books in this study.

V. That the statement of Mr. Long in regard to the probable cost of A.S. Barnes & Co's series to the parents of public school children is without warrant of fact. The first two books of this series viz: Primer and Hygiene are no higher at wholesale ~~and~~ or retail than the series advocated by Mr. Long viz: Smith's Primer and The Human Body and its Health.

VI. The object in adopting the series of four books was to allow advanced pupils the use of text books suitable to their requirements. The use of the whole series in every school is in no way obligatory.

VII The use of either of the higher books of this series will necessarily be confined to a few pupils in the larger towns of the Territory. In this connection we would call attention to the fact that of the two higher books of this series, only one can be used as one is an abridgement of the other.

In support of the above statements we hereto annex a table shown comparative prices of the two series in question. From the table it may be seen that only difference in price between the first two volumes A.S. Barnes & Co's series and Smith's series is in the Introductory

Series Adopted.

	Wholesale.	Retail.	Intro
Primer	30	35	
Hygiene		65	

	Wholesale	Retail	Intro.
Hygienic Phy.	1.00	1.25	1.00
" " abridged	.50	.60	.50
Smith's Series approved by Mr. Long			
Primer	.30	.35	.30
Human Body, &c.	.50	.60	.40

There being no further business before the Board, the same was adjourned.

R. L. Long
Sec.

Jas. A. Bayard
President.
E. J. Putter.

Phoenix, A.T., May 1st 1885

The Territorial Board of Examiners met this day at the office of Tweed & Hancock.

Present: R. L. Long, Chairman
M. W. Kibbe
and W. A. Hancock, Sec.

Under Sec. 12 Subdivision 1 of the School Law the Board adopted the following:

RULES AND REGULATIONS

Governing the Examination of Applicants for Territorial Certificates, and for the Government of County Boards of Examiners.

~~ADOPTED BY THE TERRITORIAL BOARD OF EXAMINERS. (UNDER SEC. 12, SUB-DIVISION FIRST, SCHOOL LAW.)~~

COUNTY BOARDS OF EXAMINERS.

1. The regular quarterly examination shall begin at 9 o'clock a. m. on the day fixed by law and shall close on the Tuesday following.

2. The examination shall be held at the public school house if possible; if not, then in some suitable place so arranged with desks and seats that the applicants cannot readily communicate with each other.

3. There shall be two sessions each day for *written* examinations. The evenings may be devoted to *oral* examinations The examination questions must not be opened before the day of examination.

4. The time allotted to each study will be printed on the paper on that subject, and the full time must be allowed, if the applicants require it.

5. All the examinees must begin a given subject at the same time, and no recess allowed until that subject is finished.

6. No candidate can be admitted to the examination who was absent at its opening.

7. All papers must be written in ink. Applicants must provide themselves with writing material.

8. Candidates will be instructed to answer in complete sentences, as far as practicable.

9. If the examination is held in a room having a blackboard, the questions will be written on its surface, together with the number of credits allowed for each question correctly answered, and the time allotted to each subject.

10. The order of examination, standard credits and studies required for each certificate shall be as follows:

GENERAL QUESTIONS.

Grammar	100	Methods of Teaching	50
Orthography	100	Composition	25
Arithmetic	100	Reading	50
U. S. History	50	Penmanship	25
Defining	25	Physiology	50
Geography	50	Algebra	50
School Law	25	Natural Philosophy	50
Mental Arithmetic	25		

...dits required for a first grade certificate shall be 80 per cent total number of standard credits. For a second grade certificate 75 per cent of total standard credits must be obtained.

...s all applicants from the class who fail to obtain 50 ... written arithmetic, in orthography, or in grammar.

...nts for examination must be of good moral character, free from mental or physical defects which would impair usefulness in the profession, and not less than 18 years of age; otherwise they must be rejected.

...spelling recognize both Webster's and Worcester's dictionaries as authorities, and where there are two ways of spelling a word either.

...may make due allowances for difference of opinion ...

...examination in reading should be mainly on those methods of teaching the art of reading adapted to the grade in which the applicant expects to teach.

16. As all certificates heretofore issued were granted when the requirements for a county certificate were less than under the present law, county boards of examiners *must not renew* any county certificate issued by them prior to May 1st, 1885.

TERRITORIAL CERTIFICATES.

The Territorial Board of Examiners recognizing the inconvenience to which teachers would be subject if required to appear before them for examination, have decided to fix a standard of proficiency that shall entitle a person examined before a county board to a Territorial Certificate.

1. The applicant shall declare his intention of applying for a Territorial Certificate before the examination begins

2. He shall furnish a written recommendation as to character from some well known person.

3. At the close of the examination he shall subscribe to the following oath:

TERRITORY OF ARIZONA, }
COUNTY OF ..... } ss.

....., being duly sworn, say, that I had no knowledge of the questions proposed, and that I have neither given to anyone, nor received from any source, explanations or other aid in answering any of them. So help me God.

Subscribed and sworn to before me, }
..... } .....

4. The County Superintendent will, if the applicant has received sufficient credits to entitle him to a county certificate, forward all the papers including those mentioned in Rules No. 2 and No. 3, to the Superintendent of Public Instruction, within *twelve* days after the close of the examination.

5. Papers containing evidences of fraud or collusion will be rejected.

6. Territorial certificates when issued will be sent to the County Superintendent.

DIPLOMAS.

1. The Territorial Board of Examiners will recommend to the Territorial Board of Education for Diplomas the following classes of teachers:

1. Those who hold educational diplomas issued in other States in which the requirements are similar to those in this Territory.

2. Graduates of normal schools.

3. Those who pass a satisfactory examination before this Board.

In no instance, however, will a recommendation be given unless the applicant furnishes written evidence that he has been successfully engaged in teaching the length of time required by law, and is recommended by the County Superintendent of the county in which he resides.

The Superintendent of Public Instruction having prepared Questions for the use of Boards of Examiners, the ...

were submitted to the Board for approval and after examination the Board adopted the questions as prepared, viz:

TERRITORIAL SERIES OF EXAMINATION QUESTIONS,

JUNE, 1885.

DIRECTIONS.

1. Supply yourself with pens, ink and paper.

2. Write on one side of the paper only.

3. Take a different paper for each subject. Write the subject at the head of the paper, and when completed write your name on the back.

4. Answer in clear, concise terms. Number your answers to correspond with the questions.

5. In Arithmetic, separate the solutions of different problems by drawing a line across the paper between them.

6. All communication during the examination is strictly forbidden

7. Applicants will bear in mind that the Examiners have no discretion to exercise. They *must* follow the instructions given them.

GENERAL QUESTIONS.

1. Write your name, age and place of residence.

2. For what grade of certificate are you an applicant?

3 In what schools were you educated?

4. What certificate do you hold?

5. What references in respect to teaching?

6. What letter or references in respect to moral character?

7. In what places and in what kind of schools have you taught? How long in each? How many months or years in all?

GRAMMAR.

TIME, ONE HOUR AND FIFTEEN MINUTES. TEN QUESTIONS, TEN CREDITS EACH.

1. Define grammar, and name and define its divisions

2. What is a sentence? What is the subject of a sentence? Give an example of a simple sentence? Of a compound? Of a complex?

3. Name the properties of verbs and pronouns.

4. Pluralize: Larynx, Madame, Billet-doux, Abc, Formula.

5. He said that that use of "that" was uncommon. Name the part of speech of each *that* in this sentence.

6. You are a *mile* from home. We went *home*. He asked *me* a question. Eternal *Summer!* Come! May thy *life* be happy. State the case and government of words in Italics.

7. Write the principal parts of the following verbs: Fly, eat, can, bend, breathe, mow, get, teach, see.

8. Define parsing. Define analysis.

9. Analyze: *He that* has ears to hear *let* him hear.

10. Parse the words in Italics.

Examination Questions - June 1885

ORTHOGRAPHY.

FORTY MINUTES ALLOWED TEN QUESTIONS, TEN CREDITS EACH.

1. How many syllables are there in every word?

2. How many elementary sounds in our language? Write words illustrating the different sounds of *a*.

3. What is the rule for "*e*" final when suffixes are added?

4. Give directions for the use of capital letters.

5. Why is "beginning" spelled with double n, while "begin" has but one?

6, 7, 8, 9, 10. Write the following words, and make all the corrections necessary: Antilope, caff, cammell, iknuman, exchecker, lovable, secrecy, sibel, irascible, sintillation, susceptibility, cirsingle, intelligable, meretricious, tranquility, transendent, paralell, crevise, persuit, wellcome.

WRITTEN ARITHMETIC.

TEN QUESTIONS, TEN CREDITS EACH. INDICATE THE WORKING OF THE PROBLEMS. TIME, 1½ HOURS. NO CREDITS FOR MERE ANSWERS.

1. Find the greatest common divisor and the least common multiple of 18, 48, 72, 66.

2. Reduce to the simplest form the following: $\frac{3}{4}+4/5\times1\frac{1}{2}-1/9\div.6$.

3. What will it cost to fill to the depth of 3 feet, a lot 24 feet by 132 feet, at 50 cents per cubic yard?

4. If by selling property for $6,000, I lose 25 per cent., what should I sell it for to gain 20 per cent.?

5. Find the interest on $1,000 for one year and 6 months, at 8 per cent., per year, but compounded semi-annually?

6. If a man travel 120 miles in 3 days when the days are 12 hours long, how many days of 10 hours each will he require to travel 360 miles?

7. What is the value in paper money, of 6 months interest on a $500 bond, the interest payable in gold at 6 per cent. per year, and the premium on gold at 12 per cent.?

8. When it is noon at London, what is the time at the mouth of the Columbia River, which is 120° west of London?

9. The floor of a square room contains 625 square feet. Give the length of the longest straight line that can be drawn on the floor?

10. A room in the shape of a perfect cube contains 15,625 cubic feet; how far is it from one corner on the floor to the corner diagonally opposite on the ceiling?

UNITED STATES HISTORY.

TIME, ONE HOUR. TEN QUESTIONS, FIVE CREDITS EACH.

1. Give some account of the first settlements in the Mississippi Valley.

2. Under what governments were the following States first settled: Virginia, Florida, Louisiana, California and Texas?

3, 4. The revolutionary war—when did it begin and when end? What nation assisted the colonies? Name four generals, two statesmen, one financier, one traitor

5. Give a brief account of the capture of Washington city.

6. Name principal events in Jackson's administration.

7. Write of the capture of the City of Mexico by the Americans.

8. Write a brief historical sketch of Texas.

9. Slavery—when introduced, and by whom? When abolished?

10. Name the connection the following names have with American [illegible] Scott, Alexander Hamilton, Arnold,

Examination Questions - June 1885

DEFINING (WORD ANALYSIS.)

TIME, THIRTY MINUTES. FIVE QUESTIONS, FIVE CREDITS EACH.

1 Define *abs*, *bene*.

2. Analyze: Lithography, philology.

3. Write two words containing Saxon prefixes.

4. Form two derivations from *unite* by the use of prefixes, and define the words when formed.

5. Name each prefix, root and suffix in the following: Homicide, metropolis, exhibit, construct, supervision.

GEOGRAPHY.

TIME, FORTY MINUTES. TEN QUESTIONS, FIVE CREDITS EACH.

1. What are the great natural divisions of the United States?

2. Name the two great mountain systems of the United States; the four great rivers; the largest four cities; and the three great seaports.

3. Why does so little rain fall on that part of South America west of the Andes?

4. Name the iron regions of the United States. The coal? The gold?

5. What is the use of latitude and longitude?

6. State by what great commercial routes you can now travel round the world, starting from San Francisco?

7 Where is Manitoba? Herat? Yokohama? Hong Kong? Stanley Pool?

8. In going from London to Calcutta by water by the shortest route what waters would you sail on?

9. Mention some of the causes which produce oceanic currents, and name any of the effects of such currents.

10 What are glaciers, and where are they found?

SCHOOL LAW.

TIME, THIRTY MINUTES. FIVE QUESTIONS, FIVE CREDITS EACH.

1. How are the schools of the Territory supported?
2. Name some of the powers of the Board of Education?
3. Who are entitled to admission into the public schools?
4. What are the duties of teachers in regard to making reports?
5. Who can suspend teachers? Who expel?

MENTAL ARITHMETIC.

TIME, THREE MINUTES FOR EACH QUESTION. FIVE QUESTIONS, FIVE CREDITS EACH.

Examples to be read by the examiner, solved mentally and the answer *only* written.

1. 21 is 7/10ths of how many times 8?

2. If 3 men can do a piece of work in 10 days, how long will it take 4 men?

3. A man sold cloth for $42 by which he lost 2/9ths of what the cloth cost him. How much did it cost? How much did he lose?

4. The interest on $350 for six months at 7 per cent. per annum?

5. I bought a horse for $75 and sold him for $70. What per cent. did I lose?

READING.

FIFTY (

Examination Questions June 1886

METHODS OF TEACHING.

TIME, THIRTY MINUTES. FIVE QUESTIONS, TEN CREDITS EACH.

1. What is the use of object lessons?

2. What plan would you follow in imparting instruction in manners and morals?

3. What subjects can be advantageously taught without text books? Why?

4. Name five requisites of a good teacher.

5. Name some of the advantages of oral over written recitations, giving reasons.

COMPOSITION.

TIME, FORTY MINUTES; TWENTY-FIVE CREDITS.

Write a composition of not less than two hundred words on "Government," following these suggestions: Meaning of the word; necessity of; effects of anarchy; prevailing forms of; monarchial and republican forms compared; advantages of each; conclusion.

PENMANSHIP.

TWENTY-FIVE CREDITS.

Credits in penmanship will be determined from the skill displayed by the applicant in the general execution of the papers

NATURAL PHILOSOPHY.

TIME, THIRTY MINUTES. FIVE QUESTIONS, TEN CREDITS EACH.

1. What is capillary attraction? Illustrate.

2. What do you mean when you say a body weighs a pound?

3. Describe a common thermometer.

4. Mention two laws of falling bodies.

5. Describe an ordinary galvanic battery.

PHYSIOLOGY.

TIME, FORTY MINUTES. FIVE QUESTIONS, TEN CREDITS EACH.

1. Define secretion, excretion, absorption, tissue, muscle.

2. How does physiology differ from anatomy?

3. Why does exercise increase muscular development?

4. Give directions for the preservation of the teeth.

5. Why should your school room be well ventilated?

ALGEBRA.

TIME, FORTY-FIVE MINUTES. FIVE QUESTIONS, TEN CREDITS EACH.

1. Multiply $a^2 - 2ax - b^2 + bx$ by $b^2 + ax$.

2. Reduce to its simplest form: $\dfrac{m^3a^n + n^3a^n}{a(m^2+n^2) - man}$

3. Solve the following equation:

$$\frac{x}{2} - \frac{2x}{3} + \frac{3x}{4} = 11 + \frac{x}{8}$$

4. What two numbers are there, whose sum is 48 and difference 22?

5. What two numbers are those whose sum, multiplied by the greater, is equal to 77, and whose difference, multiplied by the lesser, is equal to 12?

On motion Board adjourned subject to Call of Chairman.

[illegible] C. U. Hales

Phoenix, July 6 1885

The Board of Examiners convened at the School House at the call of the Chairman

Present: R L Long Chairman
M W Hales
Wm A. Hancock Secy.

The meeting being called for the purpose of examining applicants for Territorial Certificates, the Board prepared questions for such purpose especially.

Mr J. G. Hilzinger of Pima County and Mr. J.W. Davies of Maricopa County appeared as applicants before the Board, and the examination continued ~~throughout~~ the day.

The Rules for Government of County Boards were followed.

The Board at 6 P.M. adjourned until July 7 at 8 o'clock A.M.

July 7. 1885 8 o'clock A.M.

The Board met pursuant to adjournment and the examination resumed and continued ~~throughout~~ the day. The applicants having been examined in all the branches required by law, the Board examined the written answers to the questions and upon motion it was ordered that a First Grade Territorial Certificate be issued to J.G. Hilzinger and a Second Grade be granted to J.W. Davies and that said answers be placed on file.

Board adjourned subject to call of Chairman

Wm A Hancock
Secy.

M W Hales

R L Long
Chairman

Phoenix, October 3. 1885

The Board of Territorial Examiners convened this day at the office of Tweed and Hancock in Phoenix.

Present: R L Long Chairman
M W Hales
Wm A. Hancock

The Chairman reported that he had prepared and had printed Questions for the use of County Boards of Examiners at the September Examination and had distributed the same among the County Superintendents. It was ordered by Board that such action be and the same is hereby approved and the Questions so distributed are hereby adopted and shall have the same as if they had been adopted by this Board prior to Sept. 7. 1885

Said Questions are as follows, to wit:—

TERRITORIAL

Series Examination Questions.

September 7 and 8, 1885.

1

PRELIMINARY.

1. Write your name, age and post-office address.
2. Where educated.
3. How many years or months experience in teaching.
4. What certificates do you hold?
5. For what grade of certificate are you an applicant?
6. What references in respect to moral character?

2

GRAMMAR.

(Time 1 hour.)

1. Write a complex sentence and give a general analysis of it.
2. How are nouns varied to indicate number and gender?
3. What classes of words are used as connectives?
4. Write sentences to show the correct use of the verbs *lie, lay, sit* and *set* in the future perfect tense, indicative mood.
5. Write the plural of *lily, money, [illegible], pailful, motto.*
6. Compare the following adjectives: *best, worst, holy, next, first, last, less, evil, blue, supreme.*
7. Synopsis of the verb eat in the third person, singular, indicative mood, passive voice.
8. Principal parts of the following verbs: *burst, throw, dive, heat, drink.*
9. When is the relative *that* used in preference to *who* or *which*?
10. Analyze the sentence: "Teach me what is right," and parse each word.

3

ORTHOGRAPHY.

(Time 30 minutes.)

Write the following words correctly:

Lettus,	etteket,	Cinsinnati,
mortiss,	oxilary,	mineralogy,
newsance,	tifoon,	frakus,
grandure,	deferred,	frescoes,
irasable,	erysypalas,	manageable.
irregait,	jeweller,	
poligemy,	potencial,	
slising,	synonim,	
Vickson,	ansester,	
billyus	deceive.	

4

WRITTEN ARITHMETIC.

(1½ hours.)

1. Find the greatest common divisor and the least common multiple of 84, 126, 210 by factoring.
2. Find the sum, difference and product of 3 7-8 and 2 1-9; also the quotient of their sum by the difference.
3. What will 1 A. 60 ft. of land cost, at $100 per acre? (work decimally)
4. If the use of $1500 for 3 yrs. 8 mos. 25 dys. is worth $336.25, what is the use of $100 for 1 yr. worth?
5. Find the interest on £25 for 1 yr. 9 mos. at 5 %
6. If it costs $600 to fence a field 96 rds. long and 54 rds. wide, how much less or more will it cost to enclose a square field of same area?
7. What is the distance in rods from the center of a square field containing 10 acres to the corners?
8. A owes B $1500 due in 1 yr. 10 mos. He pays him $300 cash and a note of 6 mos. for the balance; what is the face of the note, allowing interest at 6 % per annum?
9. A tax of $10,000 is levied on a total valuation of $4,000,000. A's property is valued at $10,000. What is his tax?
10. A cubical box contains 4,492,125 cubic inches. Find the length of one of its edges?

5

U. S. H[illegible]RY.

1.

6

WORD ANALYSIS (D[illegible]

(30 minutes.)

1. Define: an English primitive word; a prefix; a suffix; a [illegible] etymology.
2. Define the prefixes, *con, dis, be, en, fore.*
3. Define the suffixes, *ize, less, ling, ment, ness.*
4. Analyze and define, *repayable, unhealthy, inexpressible,* [illegible]
5. Write a short sentence composed entirely of words of [illegible] origin.

7

GEOGRAPHY.

(45 minutes.)

1. The earth: proofs of its rotundity; its motions and their effects.
2. Bound the Mediterranean Sea and name the rivers that flow into it.
3. Give the causes of mountains, volcanoes, tides, rivers, glaciers.
4. Locate the following: Monte Video, Yokohama, Moscow, Sydney, Herat, Yukon river, Lake Baikal, Duluth, Aspinwall, Milwaukee.
5. The Mississippi river: Name the states through or between which it flows; its tributaries; its length; how far navigable; cities on its banks.

8

SCHOOL LAW.

(20 minutes.)

1. Name three powers of trustees.
2. How is the School money apportioned among districts?
3. Who can vote at a School election for trustees in your County?
4. Name the grades of Schools in this Territory. Who can add to the course of study?
5. To what classes of teachers may certificates be issued without examination?

9

MENTAL ARITHMETIC.

(Time 15 minutes.)

The applicant will solve each question mentally and *write the answer* only.

1. How many 3 cent pieces in $20?
2. What will 5½ pounds of apples cost at 5½ cents per pound?
3. If 6 men can do a piece of work in 12 days, how long will it take 9 men?
4. Interest on $50 for 2 yrs. 3 mos. at 6 %
5. A boy bought apples at the rate of 3 for 2 cents and sold them at the rate of 2 for 3 cents. What per cent did he make?

10

METHODS OF TEACHING.

(30 minutes.)

1. Give your plan for organizing and classifying a School?
2. In what order would you arrange the studies on your programme?
3. Do you believe in following the text book strictly? Why?
4. Under what circumstances do you think oral instruction in other studies than those regularly pursued, is advisable?
5. Point out the difference between "morals" and "sectarianism."

11

COMPOSITION, READING AND PENMANSHIP.

(Time 45 minutes.)

Reading exercise from selections in prose and poetry, made by the examiners.
Write a composition of not less than 200 words on "The future of Arizona."
The composition as written will be taken as a specimen of your penmanship.

12

PHYSIOLOGY.

(45 minutes.)

1. Give physiological reasons why pupils should breathe pure air.
2. Why should not pupils engage in active exertion, mental or physical, immediately before or after eating?
3. Give reasons why pupils should not be permitted to sit in a draught; or in the school room with damp feet.
4. Illustrate what you mean by "voluntary" and "involuntary" muscles.
5. Give some general rules for preserving health, that children could follow.

13

A

14

NATURAL PHILOSOPHY.

(45 minutes.)

1. Define force, matter, gravitation, mechanics, molecule.
2. Give the cause of thunder storms and tornados.
3. Describe a common force pump.
4. At what point on the earth's surface does a body weigh the most and where the least? Why?
5. Give the philosophy of the telephone.

Miss Mary A. Tyrrell having made application for a Territorial Certificate based on the ground that she is the legal holder of a Life Diploma issued her by the State Board of Education of California and the Board having examined such Diploma and other evidences presented by the applicant It is ordered that a First-Grade Territorial Certificate be issued to Miss Mary A. Tyrrell of this date.

Mr. J. H. Huffer of Yavapai County having made application for a Territorial Certificate on the grounds that he had passed the examination regularly held in said County in June last, under Rules adopted by this Board, upon examination of his answers to the questions and the other accompanying papers It is ordered that a Second Grade Territorial Certificate be granted and issued to said J. H. Huffer

Miss Mary E. Post of Yuma County having made application for a Territorial Certificate on the grounds that she had passed the examination regularly held in said County on Sept-7+8 and had received a sufficient number of credits to entitle her to such Certificate, the Board upon examination of the answers to the questions and the other papers in the case ordered that a First Grade Territorial Certificate be granted to her.

Henry D. Ross of Yavapai County having passed an examination before the County Board of said County at the September examination and having complied with the Rules in such cases forwarded his application for a Territorial Certificate, and this Board after examining his answers to the Questions and other written evidence presented does order that a Territorial Certificate of the First-Grade be issued to him.

The Board adjourned subject to call of Chairman

R. L. Long Chairman

Secretary.

M. W. Kales

Phoenix, December 7th 1885

The Territorial Board of Examiners convened this day at the office of Tweed & Hancock in Phoenix.

Present: R L Long Chm.
M W Kelly
W A Hancock Secy.

The Chairman reported to the Board that he had prepared, had printed and had distributed Examination Questions for the use of County Boards on Dec. 7 & 8th 1885.

Upon examination of said Questions It was ordered that such action be ratified by this Board.

Such Questions are as follows, to wit:

EXAMINATION QUESTIONS

FOR USE OF

COUNTY BOARDS OF EXAMINERS,

ON

December 7th and 8th, 1885.

NOTE.—Detach and give to applicants each subject, in its order, and only one subject at a time

1

PRELIMINARY.

1 Write your name, age and post-office address
2. Where educated?
3 How many years' or months' experience in teaching?
4. For what grade of certificate are you an applicant?
5 What references in respect to moral character?

NOTE.—Your standing in penmanship and composition will be determined from the general execution of your papers.

2

GRAMMAR.

(One hour.)

1. *a.*—Name those parts of speech which generally form the subject of a sentence *b.*—Name those which form predicates. *c*—Those used as connectives.

2 Point out the difference between parsing and analysis; between accent and emphasis; prose and poetry; adjectives and adverbs; between apostrophe and direct address.

3-4. "Beware, when the great gods let loose a thinker on this planet."

a.—Parse *beware*. *b.*—Give passive voice of *let loose*.
c.—Why is *gods* spelled with a small *g*? *d.*—Parse *when*.
e.—Change the construction of the above sentence so that the object of the verb will become its subject.

5 Analyze the above sentence, and define each element named in so doing.

3

ORTHOGRAPHY.

(Thirty minutes.)

Write the following words correctly.

Finanseer,	insolvansy,	possession,
vakansy,	vassillating,	seperation,
conspearasy,	morgage,	sillabel,
templar,	porfyry,	medicle,
berlesk,	agreeable,	acceed,
legle,	demerer,	merquery,
dalyah,	colloquay,	vittles,
vitles,	essence,	
alkohall,	fuedle.	

4

WRITTEN ARITHMETIC.

(One hour and three-quarters.)

Leave full solutions on your paper. No credits for mere answers.

1. A cargo is worth 7 times as much as the ship; what part of the cargo is 5–16 of the ship and cargo worth?
2. .25 of my money equals .80 of yours; if we put our money together, what part of the whole will I own?
3. Find the G. C. D. of .25, .025, 2.5, 25?
4. If I gain $160 29 in 2 years and 3 months, what would I gain in 5 years and 6 months at that rate?
5. The wine gallon contains 231 cubic inches, and the beer gallon 282 cubic inches; how much per cent larger is the latter than the former? And how much per cent smaller is the former than the latter?
6. The tax on a lot, with 2 years' penalty, amounts to 275.92\frac{1}{2}$; if the rate of taxation for the first year was 1 35–100 per cent, and for the 2d year was 1 48–100 per cent, and the penalty is 30 per cent of the tax, what is the lot assessed?
7. What principal must be loaned January 1, at 9 per cent, to be repaid by five instalments of $200 each, payable on the first day of the five succeeding months?
8. What is the area of a triangle whose base is 100 rods and altitude 90 rods?
9. How much water, with 3 pints of alcohol, 96 per cent strong, and 8 pints, 78 per cent, will make a mixture 60 per cent strong?
10. What is saved by following the diagonal instead of the sides (69 and 92 rods) of a rectangle?

5

U. S. HISTORY.

(Forty-five minutes.)

1. The Constitution—When adopted? What did it replace? Where was the Convention held? Who presided? What states were the last to approve it?
2. Name the original states. How and when was Florida acquired? Louisiana? Texas, New Mexico and California? Alaska?
3. When and by whom were the following invented: electric telegraph, cotton-gin, steamboats, mowing machines, sewing machines?
4. What important events make the following dates famous: October 11, 1492; July 4, 1776; 1787; January 8, 1815; January 1, 1863?
5. What connection have the following names with American history: Saratoga, Jamestown, Stephen Decatur, Blennerhassett, Black Hawk?

6

DEFINING (WORD ANALYSIS).

(Thirty minutes.)

1. Define an English primitive, a derivative and a compound word. Give an example of each.
2. Give directions for forming derivative and compound words.
3. Form and define two words showing the different meanings of the prefixes *un* and *in*.
4. Analyze and define *acephalous, abstract, circumvent, transcribe, controvert.*
5. Write synonyms for the following: ductile, illusive, mission, sonorous, amiable.

7

GEOGRAPHY.

(Forty-five minutes.)

1. Name the States which form the coast line of the United States.
2. Name the mountain systems of the United States, and the ranges which form them.
3. State upon what climate on different parts of the earth's surface depends.
4. By what three water routes can the Minnesota farmer send his grain to the sea-board?
5. Name the products of Alaska? Of Missouri?
6. Name three projected canals across the isthmus of Panama and point out the one which, if completed, would afford the shortest route from New York to California.
7. Patagonia has disappeared from the map. Why?
8. From what countries do we obtain coffee, cocoa, India rubber, mica, diamonds?
9. Name the bodies of water you would sail on in going from Calcutta to Canton.
10. Name three African explorers, and state briefly what they have added to geographical knowledge.

8

SCHOOL LAW.

(Twenty minutes.)

1. What branches *must* be taught in the public schools?
2. Who has power to call a teachers' institute?
3. By whom are the schools graded?
4. *a.*—Who has the power to change text books? *b.*—When a change is made when does the change go into effect?
5. Name three powers of Board of Education.

9

MENTAL ARITHMETIC.

(Fifteen minutes.)

1. If 2 pounds of Apples cost 9 cents, what will 5 pounds cost?
2. Divide the number 91 into three such parts that the second shall be 5 times the first, and the third 7 times the first.
3. $\frac{1}{2}$ is what part of $\frac{3}{4}$?
4. Reduce 1[illegible] to the fraction of a £.
5. $100, [illegible] amounts to $125; what is the rate?

10

METHODS OF TEACHING.

1. In what way and at what times would you give instructions in morals and manners?
2. Write how you would conduct an exercise in composition with beginners.
3. Spelling should be taught by written exercises. Why?
4. How would you explain to a pupil the rule for dividing $\frac{1}{2}$ by $\frac{1}{4}$?
5. Explain your method of keeping order.

11

READING.

From selections made by Examiners.

PHYSIOLOGY.

(Forty-five minutes.)

1. Name the fluids that act on the food in the process of digestion.
2. Name the functions of the liver.
3. Point out the evil effects of tight lacing
4. Name the bones of the head.
5. Point out the difference between physiology and hygiene; between physiology and anatomy.

12

ALGEBRA.

(Forty minutes.)

1. Factor $ax+ay+bx+by$
2. The greater of two numbers exceeds the less by 14, and three times the greater is equal to ten times the less; what are the numbers?
3. Find two numbers, such that the sum of half the first and one-third of the second is 9; and the sum of one-fourth of the first and one-fifth of the second is 5.
4. A person bought sheep for $94; having lost 7, he sold $\frac{1}{4}$ the remainder at cost, for $20, how many sheep had he?
5. What is the interest on n dollars, at a per cent, for b years?

13

NATURAL PHILOSOPHY.

(Thirty minutes.)

1. Why does fire burn?
2. Upon what two things do the laws for the force of gravity or gravitation depend?
3. What do you understand by polarization of light?
4. Explain the construction of an electric light.
5. Name the principal sources of heat.

ANSWERS.

WRITTEN ARITHMETIC.

1. 5-14
2. ~~5-91~~ 16-21
3. .025.
4. $391.82.
5. 22 6-77 pr. ct.; 18 4-47 pr. ct.
6. $7,500.
7. $978.10
8. 28 a., 20 rd.
9. 4 1-5 pts.
10. 46.

ALGEBRA.

1. $(a+b)(x+y)$.
2. 6; 20.
3. 8; 15
4. 47.
5. $\frac{anb}{100}$

Approved:

R L Long

W H Hancock

Geo Miller

M O Kales

Phoenix Febr. No 1886

The Board of Territorial Examiners convened this day at the office of Tweed & Hancock.

Present: R L Long Chairman
Wm A Hancock Secy
M W Kales member

Misses Sarah Indee Herring, Maria L. Haines, Ella Fry and Laura Hunsaker all of Cochise County having passed a satisfactory examination before the County Board of Examiners of said County and the answers to the examination questions in due form having been forwarded and examined by this Board and it appearing that such examination was regularly held and conducted and the proficiency shown by said applicants being sufficient to entitle them to certificates

It is hereby ordered that First-Grade Territorial Certificates be granted to Misses Herring, Haines and Fry and that a Second Grade Certificate be issued to Miss Hunsaker.

The Chairman submitted the following Questions for use at the March examination, which after being examined were adopted.:

EXAMINATION QUESTIONS

—PREPARED BY—

Territorial Board of Examiners,

—FOR USE OF—

COUNTY BOARDS,

March 1 and 2, 1886.

NOTE.—Detach and give to applicants each subject, in its order, and only one subject at a time.

1.

PRELIMINARY.

1. Write your name, age and post-office address.
2. Where educated?
3. How many years' or months' experience in teaching?
4. For what grade of certificate are you an applicant?
5. What references in respect to moral character?

NOTE.—Your standing in penmanship and composition will be determined from the general execution of your papers.

2.

GRAMMAR.

(*One hour.*)

1. Name the grammatical forms of nouns and pronouns.
2. Give general rules for comparison of adjectives and adverbs. Illustrate.
3. Give the different forms and the various classes of verbs. Give an example of each.
4. Analyze: Language was given us that we might say pleasant things to one another.
5. Parse *why* and *evident* in the following: The reason why he came is evident.

3.

ORTHOGRAPHY.

(*Thirty minutes.*)

Write the following words correctly:

Surfit,	reckomend,	seseshon,
aks,	meusilage	plurasy,
Teusday,	pernishus,	millinery,
proflagacy,	seesure,	buisness,
purswade,	sithe,	persude,
vigilant,	centinell,	candel,
malishus,	yawt,	aligatur,
intamitly,	masheen,	remitence.
	judgment,	

4.

WRITTEN ARITHMETIC.

(*One and one-half hours.*)

Leave full solutions on paper. No credits for mere answers.

1. Divide $4\frac{1}{3}$ by $4\frac{1}{2}$, and multiply the quotient by five-sixths.
2. Divide 375 by .75 and .75 by 375, and find the sum and difference of the quotients.
3. If the weight of a bushel of wheat is 60 pounds, how many bags that hold 2 bu. each will be required to contain 3 t 4 cwt. 20 lb. of wheat?
4. Yuma is 466 miles west of Deming, and a degree of longitude at Yuma contains about 53 miles; when it is noon at Yuma, what is the time at Deming?
5. What is the side of a cube equal to a pile of wood 242 ft. long, 12 ft. wide, and 7 ft high?
6. A boat is rowed at the rate of 6 miles an hour, and is driven 44 feet in 9 strokes of the oar; how many strokes are made in a minute? Solve by proportion.
7. When money is worth 9 per cent interest, A bought $800 worth of goods, kept them 4 months, and sold them for $959.10. What per cent on the cost did he gain?
8. How many acres in a four-sided field having two parallel sides which are 60 rods apart, and the ends 40.05 rods and 64.08 rods long, respectively?
9. What sum of money will yield as much interest in 3 years, at $4\frac{1}{2}$ per cent, as $540 yields in 1 year, 8 months, at 7 per cent?
10. A note of $1,250, dated July 5, 1868, was paid June 1, 1870, with interest at 8 per cent; what was the amount paid?

5.

U. S. HISTORY.

(*Forty-five minutes.*)

Write briefly on these topics.

1. The Indians.—Their supposed origin; habits; five families of; evidences of civilization; present condition.
2. Discoveries.—Norse; English, French; Spanish; Dutch.
3. Settlements.—Jamestown; Plymouth; St. Augustine; Manhattan; Philadelphia.
4. State briefly how English supremacy was obtained in the Colonies prior to the Revolution.
5. Write a concise statement showing the growth in territory of this country since 1800.

6.

DEFINING.

(*Thirty minutes.*)

1. Define English word-analysis and show the benefits derived from its study.
2. Point out the difference between a definition and a synonym.
3. Define and show that the following pairs of words are not synonyms: pay, recompense; payee, receiver; fight, contest; run, flee; think, reflect.
4. Define the suffixes in the following: reader, learned, reading, shaken, streamlet.
5. Analyze and define: subscribe, liar, unite, union, examination.

7.

GEOGRAPHY.

(*Forty-five minutes.*)

1. Name and bound the zones.
2. Define climate, and give three causes of variation in climate.
3. Describe the three natural regions you would cross in traveling from San Francisco to New York.
4. Describe, briefly, three great rivers in the United States which have their sources near each other.
5. What is the area of the United States? What their population?
6. Name the "Lake States;" the "Pacific States."
7. When is the earth nearest the sun, and when farthest from it.
8. How far north or south of the equator do the sun's rays fall vertically?
9. Name the republics of the world.
10. Locate Manilla, Bahia, Natal, St. Johns, Honolulu.

8.

SCHOOL LAW.

(*Twenty minutes.*)

1. What constitutes a school month? A school year?
2. What is the penalty for not using adopted text-books?
3. How often is a school census taken in this Territory?
4. What districts are empowered to use money for school libraries? How much can be used?
5. What is the penalty for granting certificates contrary to law?

9.

MENTAL ARITHMETIC.

(*Ten minutes.*)

Solve mentally. Write answers only.

1. Divide $\frac{7}{8}$ by $\frac{4}{7}$.
2. Interest on $150 for 2 yrs. at 6½ per cent?
3. A man received $6 for 4 days' work; what would he receive for 12 days' work?
4. A can do a piece of work in 5 days, and B in 8 days; how long will it take both to do it?
5. A cellar, 15 by 10 feet, was covered with cement at 12½ cts. per square foot. What did it cost?

10.

METHODS OF TEACHING.

(*Thirty minutes.*)

1. What are the objects of education?
2. Name two characteristics of a good recitation
3. What is it to govern a school? What are the objects of school discipline?
4. State the reasons for teaching arithmetic in the schools.
5. State in full your method of teaching grammar to beginners.

11.

READING.

From selections in prose and poetry, made by the Examiners.

PHYSIOLOGY.

(*Thirty minutes.*)

1. Of what are the bones composed? Which part is formed first?
2. How are the muscles generally arranged? Name the most important single muscle.
3. What is the action of the air in the lungs?
4. How is the brain divided?
5. Where is animal heat generated? How? What connection has respiration with animal heat?

12.

ALGEBRA.

(*One hour.*)

1. A certain fraction becomes 1 when 3 is added to the numerator, and ½ when 2 is added to the denominator; find it.
2. A is twice as old as B; twenty-two years ago he was three times as old. Required, A's present age.
3. Given $x^{\sqrt{x}-x}=2$, to find the values of x.
4. There are two numbers, one of which is greater than the other by 8, and whose product is 240. What are they?
5. Divide the number 100 into two such parts that the sum of their square roots may be equal to 14.

13.

NATURAL PHILOSOPHY.

(*Forty minutes.*)

1. Explain the term "latent heat," and give an illustration of its conversion into sensible heat.
2. Describe an experiment showing that sound consists of vibrations.
3. Explain the principle of the syphon.
4. Why does extreme heat or extreme cold produce thirst?
5. How many forces will act on a body thrown horizontally?

Signed:

R. L. Long Chairman
W. H. Hamaut C.
Secretary
M. O. Kales

Phoenix, March 1. 1886

The Board of Examiners convened at the office of Tweed & Hancock

Present: Full Board

Dayton A. Reed, of Maricopa County having made application before this Board for a Territorial Certificate based on a Life Diploma issued to him, July 23rd 1878 by the Board of Education of the State of California. And it appearing from such Diploma that said applicant is well qualified and experienced it was ordered that a First Grade Territorial Certificate be issued to him.

Board adjourned.

(Signed) R L Long, Chairman
Wm H Hancock
Recording
M. W. Kales

Phoenix March 16. 1886

The Board met on the call of the Chairman at the office of Kales & Lewis.

Present: All the members.

Mrs. J. T. Watkins of Mohave County having made application for a Territorial Certificate based on a Diploma of graduation from the State Normal School of California dated May 31. 1883 and having furnished evidence of good character It was ordered that a first grade Territorial Certificate be granted her of this date.

Board adjourned.

R L Long Chm
Wm H Hancock Sec
M W Kales

Phoenix May 8. 1886

Miss Lillie N. Taft of Pima County having made application for a Certificate based on a Diploma of graduation from the Massachusetts State Normal School at Framingham, accompanied by testimials of good character and success in teaching

It is ordered that a Certificate of first grade be granted her

Board adj.

R L Long
Wm H Hancock
M W Kales

Phoenix May 28th 1886

The Board of Examiners convened at the office of Kales & Lewis.

Present: R. L. Long Chm
W. A. Hathaway Sec
M. W. Kales

Mr. A. S. Keren of Pinal County a legal holder of a Life Diploma issued by the State of Cal. dated Sept. 29, 1879, Mr. E. L. Morse of Graham Co. who passed an examination in said County on Mar. 1 & 2 last and Mrs. Susan H. Summers of Pinal Co. a graduate of the Penna. State Normal School at Phila. and ~~the~~ legal holder of a Life Diploma issued by the State of Cal. dated Mar. 13 1879, having made application for Certificates based on said Diplomas and such examination, and the Board having examined into the same does order that a first grade Territorial Certificate be issued to each of said applicants.

The Superintendent presented the following list of questions for the use of County Boards of Examiners on June 7 & 8 1886 which upon examination were adopted for use on said dates,

EXAMINATION QUESTIONS

—PREPARED BY—

Territorial Board of Examiners,

—FOR USE OF—

COUNTY BOARDS,

June 7-8, 1886.

NOTE.—Detach and give to applicants each subject, in its order, and only one subject at a time.

TO EXAMINERS:

The Board of Education directed that all persons holding Territorial Diplomas submit to a re-examination. Notices were sent to the Chairman of your Board for distribution. You will please report to this office (1) *the names of persons notified;* (2) *the names of those who passed a satisfactory examination;* (3) *the names of those who failed to pass or refused to appear.*

R. L. LONG, Supt.

1.

PRELIMINARY.

1. Write your name, age and post-office address.
2. Where educated?
3. How many years' or months' experience in teaching?
4. For what grade of certificate are you an applicant?
5. What references in respect to moral character?

NOTE.—Your standing in penmanship and composition will be determined from the general execution of your papers.

2.

GRAMMAR.

One hour.

1. Write out the following in a proper form for print:—between the dark and the daylight when night is beginning to lower comes a pause in the days occupation that is known as the childrens hour.
2. Write the same in as nearly a prose order as the language admits of.
3. Analyze the same sentence.
4. In the above sentence, parse the words:—*between, is beginning, comes, that, is known.*
5. Correct the following sentences, and state why the corrections are made: —There is a difference between you and I; This cook makes gorgeous sponge-cake.
6. Write a simple sentence, using a collective noun as subject. Give the number of the verb in the predicate, and the reason why it is so.
7. Write the singular of such of the following nouns as have a singular:—*brethren, riches, Messrs., cattle*; also the plural of *child, lily, gold, vice, statesman.*
8. When are nouns said to be personified? Give an example.
9. Write three sentences using the verb *study*:—1, in the active voice; 2, in the passive voice; 3, in the progressive form.
10. What are the principal parts of a verb? Give the principal parts of two regular verbs, and three irregular verbs.

3.

SPELLING.

Thirty minutes.

Write correctly the following words:

Yooker,	emissary,	lisense,
critisize,	eligable,	croshay,
italisize,	capillary,	mersenery,
sturip,	embarrassment,	audacity,
weavel,	fawset,	colosel,
fatiging,	gilloteen,	assilum,
firmament,	sanktnary,	sometary,
civillian,	analogous,	pinical.
	begar,	

4.

WRITTEN ARITHMETIC.

One and one-half hours.

Leave full work on your paper. No credits for mere answers.

1. Reduce 3 pk 6 qt. 1 pt. to the decimal of a bushel.
2. What part of $\frac{1}{3}$ of $\frac{7}{8}$ is $\frac{1}{2}$ of $\frac{11}{12}$?
3. If it costs $240 to board 16 persons 5 weeks, how much will it cost to board 9 persons 22 weeks? Analyze
4. A horse was bought for $200, and sold so that 20 per cent of the money received was gain. How much was received?
5. A field is 80 rods long and 20 rods wide. How much will it cost to fence it at $1.50 per rod? How much to fence a field of same area in form of a square?
7. How many acres in a square field whose diagonal is 49.497 rods?
8. Find the difference between the interest and the true discount on $600, due in 2 years, 4 months and 20 days at 6 per cent.
9. If it cost $403 to insure a store and goods for two-thirds their value, at a premium of $3\frac{1}{3}$ per cent, what would be the loss to the owner on the property if burned?
10. In a square lot containing $\frac{2}{10}$ of an acre, how far is the center from each corner and from the center of each side?

5.

U. S. HISTORY.

Forty-five minutes.

Write briefly upon the following topics:

1. (*a.*) Hessians and Tories. (*b.*) Our foreign allies during the Revolution.
2. Money troubles during the Revolution. (*a.*) Paper currency. (*b*). Its effect on the country.
3. Name the leading political parties since the Revolution.
4. The Territories. (*a.*) How organized. (*b.*) How governed. (*c.*) Slavery. (*d.*) Polygamy. (*e.*) From what Territory, and when, was Arizona organized?
5. Connect each of the following names with one important event: Ethan Allan; John Stark; Henry Clay; Sergeant Jasper; Mrs. Surratt.

6.

DEFINING (WORD ANALYSIS).

1. e y

7.

GEOGRAPHY.

Forty minutes.

1. Define: Colony, aborigines, earthquake, commerce, government, capital, river-basin, climate, tropics, tide.
2. (*a.*) What is an ocean current? (*b.*) Name and describe two. (*c.*) State effect of each upon climate of some country.
3. Name and describe the largest river of each grand division of the continents.
4. How would you go by water from (*a.*) Yuma to Seattle; (*b.*) St. Paul to Kansas City; (*c.*) Para to Yokohama; (*d.*) Chicago to Wilmington; (*e.*) Washington to Pittsburg?
5. Locate the following: Pernambuco, Jerusalem, Stockholm, Nice, Melbourne, Nagasaki, Callao, The Hague, Leipsic, Butte City.

8.

SCHOOL LAW.

Thirty minutes.

1. (*a.*) Who can vote at a school election for Trustees? (*b.*) For a special school tax?
2. What is the minimum amount of money a district having (*a.*) more than 10 and less than 15 census children shall receive? (*b.*) District having 30?
3. What must a teacher do before taking charge of a school?
4. (*a.*) What Board has power to adopt rules for government of schools? (*b.*) For examination of teachers?
5. What five officers must make reports?

9.

MENTAL ARITHMETIC.

Eight minutes.

Solve mentally. Write answers only.

1. Divide $\frac{1}{2}$ of $\frac{1}{3}$ by $\frac{1}{4}$.
2. What part of $20 is $16.50?
3. What cost $12\frac{1}{2}$ pounds of sugar at $12\frac{1}{2}$ cents a pound?
4. Interest on $50 for 1 month, at 10 per cent per annum?
5. A teacher receives $48 for teaching, at the rate of $105 per school month; how many days did he teach?

10.

METHODS OF TEACHING.

Thirty minutes.

1. What preparation would you make in teaching "change of seasons?"
2. State your method of organizing an ungraded country school.
3. What are some of the obligations you assume when you take charge of a school?
4. Give the programme of a day in your school, showing exercises and time spent in each.
4. State four points in the Arizona School Law that every teacher should know.

READING.

From selections in prose and poetry.

11.

PHYSIOLOGY.

Thirty minutes.

1. Describe the human brain.
2. Of what are the bones composed?
3. What effect has respiration on the blood?
4. Give physiological reasons for recesses in school.
5. State three general rules for preservation of health.

12.

ALGEBRA.

Forty minutes.

Let all work appear upon the paper.

1. Divide $462 between two persons, so that for every dime which one receives the other may receive a dollar.
2. Given $\frac{x+y+1}{x-y-1}=a$; and $\frac{x+y+1}{x+y-1}=b$; to find x and y.
3. Factor $a^2c+2abc+b^2c$.
4. Extract square x^2-2x+1.
5. $\frac{x+2}{x-2}=2$

nu

11.

13.

NATURAL PHILOSOPHY.

Forty minutes.

1. What is a magnet? What do we mean by magnetic poles, declination and inclination?
2. Sound: (*a.*) Cause; (*b.*) velocity; (*c.*) conductors; (*d.*) reflection; (*e.*) echoes.
3. Heat: (*a.*) Sources; (*b.*) latent.
4. Electricity: (*a.*) Frictional; (*b.*) voltaic.
5. What causes rain? Snow? Hail? Wind?

Approved;

R L Long Chm;
Wm A Hancock Sec
M W Kales

The Territorial Board of Examiners met on this day June 20, 1886 at the office of the County Treasurer, in Phoenix.

Present: R L Long Chm
M W Kales
Wm A Hancock Secy.

Miss Ada Kelly of Maricopa Co. having made application for a Certificate based on an examination held June 7-8, accompanied by the answers to the questions upon examination of the papers &c, It was ordered that a Second grade Certificate be issued to her of this date.

Miss Mimi Martin of Yavapai, Miss Emma J. Monk of Pinal Miss Martha A White of Pima having made application for Territorial Certificates on the ground that each of them is a Normal School Graduate.

It was ordered upon examination of the Diplomas of graduation that a First Grade Territorial Certificate be issued to each of said applicants.

Ida McEwen of Maricopa Co. having passed a successful examination before the Board of said County it is ordered that a First Grade Certificate be granted to her.

Board adjourned;

R L Long Chm
Wm A Hancock
M W Kales

Phoenix, August 10. 1886

The Board convened this day at the County Treasurers' office in Phoenix.

Present: R. L. Long Chm.
Wm. A. Hancock

The Chairman submitted Examination Questions for use on Sept. 7-8 1886 which upon being examined were adopted.

Said questions are as follows:

EXAMINATION QUESTIONS

—PREPARED BY—

Territorial Board of Examiners,

—FOR USE OF—

COUNTY BOARDS,

September 6-7, 1886.

NOTE.—Detach and give to applicants each subject, in its order, and only one subject at a time.

1.

PRELIMINARY.

1. Write your name, age and post-office address.
2. Where educated?
3. How many years' or months' experience in teaching?
4. For what grade of certificate are you an applicant?
5. What references in respect to moral character?

NOTE.—Your standing in penmanship and composition will be determined from the general execution of your papers.

2.

GRAMMAR.

One Hour.

1. Define grammar, and name and define its divisions.
2. What is a sentence? What is the subject of a sentence? Give an example of a simple sentence. Of a compound sentence. Of a complex sentence.
3. Define pronoun, and name and define the different kinds of pronouns.
4. Write the feminine of *abbot* and *executor*, the possessive singular of *it*, and the possessive plural of *I*, *thou*, *lady*, *he*, *money*, *woman* and of *amanuensis*.
5. Define adjective, and compare *old*, *happy*, *miserable*, *perfect*, *superior*, *ill*, *near*, *square* and *well*.
6. Name the modes of verbs. What is mode?
7. Write the principal parts of the following verbs: *sit*, *fly*, *lie*, *eat*, *rise*, *hang*, *see*, *get*, *can*, *read*.
8. Correct the following sentence and give reasons for the corrections; "Who did you say asked you and I to set here."
9. Analyze the following sentence: "*There* was a brook *running* through the meadow *about* fifty *yards* from the house in *which* we lived."
10. Parse the italicized words in the preceding sentence.

3.

SPELLING.

Thirty Minutes.

Write the following words correctly:

Jailer,	disfranchise,	skillfull,
akurey,	anomolous,	isikel,
sicrifishal,	sanction,	gauging,
parliment,	higene,	paroxism,
lyceum,	leprosy,	indelibel,
analitical,	[illegible]	L[illegible]yet
analize,	[illegible]	I[illegible]al

4.

WRITTEN ARITHMETIC.

One Hour.

Leave all work on the paper. No credits for mere answers.

1. Add $\frac{3}{4}$ of $3\frac{1}{2}$ to $\frac{8}{7}$ of $\frac{9}{10}$.
2. Change $\frac{3}{7}$ of a mile to units of lower denominations.
3. Find the sum of the following: 756.02×0.1; 18.3×100; $0.7 \div 0.001$; and $0.24 \div 16$.
4. A man bought a piece of ground containing 0.316 A. at 53 cents a square foot; what did he pay for the piece?
5. What sum of money, if put at interest at 6 per cent, will amount to $870 in [illegible]ears six months?
6. A lamp is sold at 10 per cent below cost, and brings 54 cts.; what would it bring if sold at 25 per cent above cost?
7. What will be the number of vines required for 2 acres if they are set 5 feet apart?
8. Number of board feet in a log 60 feet long and 70 inches in diameter?
9. How many yards of silk $\frac{3}{8}$ yard wide will it take to line $4\frac{1}{4}$ yards of broadcloth $1\frac{3}{8}$ yards wide?
10. Multiply 903 14 by 0 063 and extract the square root of the product to three decimal places, and divide the result by 0 02.

5.

U. S. HISTORY.

Forty-five Minutes.

1. Name five discoverers of the New World and the parts of America discovered by each.
2. Of the five great centers of colonial settlements, state where and by whom each was settled: 1. Jamestown; 2. Plymouth; 3. New York; 4. Pennsylvania; 5. Maryland.
3. What events in the Revolutionary War were connected with the following cities: 1. Boston; 2. New York; 3. Philadelphia; 4. Savannah; 5. Trenton.
4. What were the Alabama Claims? Give account of their settlement.
5. Name the presidents in order, and give the dates of beginning and close of administration, and the political party by which each was elected.

6.

DEFINING.

Thirty Minutes.

1. Point out the difference between a definition and a synonym.
2. Define *teaching* and name its synonym.
3. Analyze, and define: republican; democratic, anarchist, socialist, nihilist.
4. Define the suffixes *ment* and *ferous*.
5. Form and define three words from the roots *graph* and *struct*.

7.

GEOGRAPHY.

Forty Minutes.

1. Compare Arizona with Washington Territory, in respect of: (*a*) size; (*b*) climate; (*c*) productions; (*d*) inhabitants.
2. Account for the difference in rainfall in the territories above named.
3. Describe the Colorado and Mississippi rivers.
4. Bound the Gulf of Mexico and name two Mexican and three American cities on its banks.
5. Locate the following: Zanzibar, Kingston, Acapulco, Naples, Hue, New Westminster, Londonderry, Lima, Mt. Hecla, Lena River.

8.

SCHOOL LAW.

Thirty Minutes.

1. Give a brief synopsis of the Arizona law.
2. State the minimum and maximum rates of county school tax.
3. What determines the grade of a school?
4. Who can suspend a pupil? Who expel?
5. What is the penalty for disturbing a public school?

9.

MENTAL ARITHMETIC.

Ten Minutes.

Appli[illegible]ntally

1.
2.
3.
4.
5. The [illegible]en will [illegible]nex be

10.

METHODS OF TEACHING.

Forty Minutes.

1. What are the three distinct forms of action of which the mind is capable?
2. Distinguish between training and telling in teaching.
3. Name some advantages of object-teaching.
4. What studies are best adapted to cultivation of memory? Of reasoning powers? Of language?
5. Name five rules of politeness with which it would be well to make your pupils acquainted.

11.

PHYSIOLOGY.

Forty Minutes.

1. Describe the chest, and name what important organs it contains.
2. Of what is the blood composed? In case an artery in the arm is cut, what plan would you adopt to prevent the patient's bleeding to death?
3. Why is the use of alcoholic stimulants generally injurious?
4. Why is the presence of growing plants in a sleeping-room injurious?
5. What would you do to bring back animation to a person just rescued from drowning?

12.

ALGEBRA.

One Hour.

1. $\frac{X+2}{X-2} - \frac{X-2}{X+2} = \frac{5}{6}$ Find the value of X.
2. Divide $p^3 + pq + 2pr - 2q^2 + 7qr - 3r^2$, by $p - q + 3r$.
3. Free the following from negative exponents and reduce it to its simplest form:

$$\frac{A^{-3} - b^{-2}}{A^{-1} + b^{-3}}$$

4. $X - Y = 3$, $X^2 + Y^2 = 117$. Find the values of X and Y.
5. From $3X + \frac{X}{b}$ take $X - \frac{X-a}{c}$

13.

NATURAL PHILOSOPHY.

Forty Minutes.

1. How is the specific gravity of a solid found?
2. What are the three states of equilibrium?
3. What are the prismatic colors and why so called?
4. Describe physical and chemical change.
5. Why does water extinguish fire?

The Board adjourned subject to call of the Chm.

R L Long Chm

~~Wm Stancock~~

Phoenix, ~~Sept. 30.~~ Oct. 1st 1886

Board met at the office of the County Treasurer at Phoenix on above date.

Present: R L Long Chm
M W Kelly
Wm A Stancock

Misses Ida A. Otis of Gila County, Ada Kelly, Addie Kelly of Maricopa County and W. L. Vanatton of Yavapai County having passed successful examinations before the Board of Examiners of their respective Counties and having made application for Territorial Certificates based on such examination the Board after examining the answers

to the questions hereby orders that a Second Grade Territorial Certificate be issued to Miss Otis and a First-Grade to each of the other applicants.

Board adjourned

R. L. Long Chm

Phoenix Nov. 13. 1886

The Board of Examiners Convened at the office of Tweed & Hancock
Present:- All the Members.

Mrs. Mary L. Gaston of Cochise County and Mrs. U. Gregory of Pima County having applied for Territorial Certificates — the former upon a Life Diploma issued by the State of Nevada and the latter on a Life Certificate from the State of Missouri; upon examination of such Diplomas and accompanying recommendations. It was ordered that First-Grade Territorial Certificates be granted said applicants.

The Chairman submitted the following Questions for use at the December Examination which after Examination were adopted.

EXAMIN
Territorial
U

2.

GRAMMAR.

(*1¼ hours.*)

1. Define grammar. Name and define its divisions
2. What is a sentence? What may be the subject of a sentence?
3. Give an example of a simple sentence; of a compound; of a complex. Name the properties of verbs and pronouns.
4. Pluralize. Larynx, madame, billet-doux, abs/ formula.
5. He said that that use of that was uncommon. Name the part of speech of each *that* in this sentence.
6. You are a *mile* from home. We went *home*. He asked *me* a question. Eternal *Summer!* Come! May thy *life* be happy. State the case and government of the words in italics
7. Write the principal parts of the following verbs: Fly, eat, can, bend, breathe.
8. Define parsing. Define analysis
9. Analyze: *He who* fights and runs *away*, lives to fight another *day*.
10. Parse the words in italics.

3.

SPELLING.

(*30 minutes.*)

Write the following words correctly:

Tirbulent,	dependent,	analize,	penshon,
tirrany,	catarr,	analysis,	mewcus,
Hassayampa,	critasism,	sterill,	strategy,
gasious,	obstinasy,	alcahal,	petrolyum
Massachewsets,	higeane,	illiteracy,	
privalege,	sulfer,	tendansy,	
relitiv,	phosforus,	vacansy,	

4.

WRITTEN ARITHMETIC.

(*1½ hours.*)

(Leave all work on the paper.)

1. Find the greatest common divisor and the least common multiple of 18, 48, 72, 66.
2. Reduce to the simplest form the following: $\frac{3}{4}+\frac{1}{3}\times 1\frac{1}{2}-\frac{1}{9}\div 6$.
3. What will it cost to fill to the depth of 3 feet, a lot 24 feet by 132 feet, at 50 cents per cubic yard?
4. If by selling property for $6,000, I lose 25%, what should I sell it for to gain 20%?
5. Find the interest on $1,000 for 1 year and 6 months, at 8% per year, but compounded semi-annually.
6. If a man travel 120 miles in 3 days when the days are 12 hours long, how many days of 10 hours each will he require to travel 360 miles?
7. What is the value in paper money of 6 months' interest on a $500 bond, the interest payable in gold at 6% per annum, and the premium on gold at 12 per cent?
8. When it is noon at London, what is the time at the mouth of the Columbia river, which is 120° west of London?
9. The floor of a room contains 625 square feet. Give the length of the longest straight line that can be drawn on the floor.
10. A room in the shape of a perfect cube contains 15,625 cubic feet; how far is it from one corner on the floor to the corner diagonally opposite on the ceiling?

5.

U. S. HISTORY.

(*40 minutes.*)

1. W[illegible] briefly on the following topics in Je[illegible] administration: African s[illegible] trade; State admitted; Territory ac[illegible] steam navigation; embargo.
2. The Southern Confederacy: Why formed; States composing it; President and Vice-President; the capitals; principle [illegible] by its overthrow.
3. Give a brief account of the capture of W[illegible] by the [illegible] with [illegible]
4. State the line of march of the two invading [illegible] of the United States during the Mexican war.
5. What is the "Electoral College?" When does the election of a President devolve on the House of Representatives?

6.

DEFINING.

(*30 minutes.*)

1. Define an English primitive, a derivative and a compound word.
2. Give directions for forming derivative and compound words.
3. Form and define two words showing the different meanings of the prefixes [illegible]
4. [illegible] and define repayable, abstract, decimal, ductile, exhibition [illegible]
5. Write two words [illegible] Saxon prefixes.

GEOGR

1. Define latitude and longitude. What is the latitude of the equator? The longitude of the south pole?
2. Name the States which form the coast line of the United States.
3. Name the mountain systems of the United States and the principal ranges which form them.
4. What bodies of water would you sail on in going from Calcutta to Constantinople?
5. Describe briefly three great rivers in the United States which have their sources near each other.

8.

SCHOOL LAW.

(30 minutes.)

1. How is the school money distributed among the districts?
2. By whom are the schools graded? How many grades are there?
3. Who can suspend a pupil? Who expel?
4. What class of districts are authorized to purchase library books? How much can they expend yearly?
5. What school officers must visit the schools?

9.

MENTAL ARITHMETIC.

(10 minutes.)

Solve mentally. Write the answers only.

1. ½ is what part of ⅔?
2. How many 5-cent pieces in $20.
3. If 6 men can do a piece of work in 15 days, how long will it take 5 men?
4. Interest on $350, for 6 months, at 7% per annum?
5. Bought a horse for $75 and sold him for $70. What per cent did I lose?

10.

METHODS OF TEACHING.

(40 minutes.)

1. What are the objects of education?
2. Name two characteristics of a good recitation.
3. What is it to govern a school?
4. What are the advantages of object teaching?
5. State in full your method of teaching grammar to beginners.

11.

READING.

Selections in prose and poetry.

12.

ALGEBRA.

(40 minutes.)

1. Factor $ax+ay+bx+by$.
2. The greater of two numbers e mes the greater is equal to 10 times the l.
3. Find two numbers, such the second is 9, and the sum second is 5
4. A person bought sheep der at cost, for $20; how many s
5. What is the interest on

13.

NATURA.

1. What is ca tio do y be a n

Phoenix January 10 1887

The Territorial Board of Examiners convened this day at the office of Tweed & Hancock.

Present: R. L. Long Chairman
M. W. Kales
Wm A. Hancock Secy.

The minutes of Nov. 13, were approved.

R. A. Winder Mrs. R. R. Ogden of Gila Co.; James E. Garrett of Graham Co. Mrs. A. R. Walbridge and Ida E. Warfield of Pinal Co having made application for Territorial Certificates based on having passed successful examinations before the County Boards of their respective Counties in Dec. 1886 and having forwarded their answers to the examination questions, upon examination of the accompanying papers it was ordered that a 2nd grade Territorial Certificate be issued Mrs. Ogden and 1st grade Certificates be granted each of the other applicants.

The Board adjourned subject to the call of Chas. M. Strauss Esq. the Superintendent of Public Instruction (elect).

R. L. Long Chairman
M. W. Kales